FILE NOTATIONS

Entered in NID File .....
Location Map Pinned .....
Card Indexed .....

Checked by Chief .....
Approval Letter 8-24-70
Disapproval Letter .....

COMPLETION DATA:

Date Well Completed .....

..... WW..... TA.....
..... OS..... PA.....

Location Inspected .....

Bond released
State or Fee Land .....

LOGS FILED

Driller's Log.....
Electric Logs (No.) .....
E..... I..... Dual I Lat..... GR-N..... Micro.....
BHC Sonic GR..... Lat..... Mi-L..... Sonic.....
CBLog..... CCLog..... Others.....

Form DOGC-1a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well: Oil Well [X] Gas Well [ ] Other ___ Single Zone [X] Multiple Zone [ ]

2. Name of Operator: Shell Oil Company (Rocky Mountain Division Production)

3. Address of Operator: 1700 Broadway, Denver, Colorado 80202

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 1285' FNL and 1378' FEL Section 26
At proposed prod. zone: SE NW NE

5. Lease Designation and Serial No.: 20100

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Farm or Lease Name: Murdock

9. Well No.: Shell-Murdock No. 1

10. Field and Pool, or Wildcat: N. Uinta Basin Area (WC)

11. Sec., T., R., M., or Blk. and Survey or Area: Approx. C NE/4 Section 26-T2S-R5W

14. Distance in miles and direction from nearest town or post office*: Approximately 8 miles north of Duchesne

12. County or Parrish: Duchesne 13. State: Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 1285'

16. No. of acres in lease: 1,015

17. No. of acres assigned to this well:

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.:

19. Proposed depth: 13,000 Green River - Wasatch Fm

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 6218 GL

22. Approx. date work will start*: September 1, 1970

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement

As per attached drilling prognosis and certified survey plat. ✓ CHF

Approve, but need written statement that Shell owns all acreage in 660' radius and location results from topog - PWB Rule C-3(c)

(2) cc: United States Geological Survey - Salt Lake City, Utah w/attachments.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Signed: W. H. Wieder Title: For: J. C. Howell, Division Petroleum Engineer Date: August 21, 1970

(This space for Federal or State office use)

Permit No. 43-013-30049 Approval Date

Approved by ______ Title ______ Date ______
Conditions of approval, if any:

*See Instructions On Reverse Side

DRILLING WELL PROGNOSIS

WELL NAME: SHELL - MURDOCK No. 1

TYPE WELL: EXPLORATORY

~~FIELD~~ AREA: NORTHERN UINTA BASIN

APPROX. LOCATION (SUBJECT TO SURVEY): SW NE SEC 26 T2S R5W DUCHESNE CO., UTAH

EST. G.L. ELEVATION 6140 PROJECTED TD 13,000' OBJECTIVE WASATCH

LE ZE	CASING PROGRAM	LOGGING PROGRAMS	MAX DEV.	DEPTHS AND FORMATION TOPS	SPECIAL INSTRUCTIONS
	26" — CONDUCTOR			40'±	SAMPLES: 30' - SFC TO 3500' 10' - 3500' TO 8500' 5' - 8500' TO TD.
17½"	13⅜"		1°	1100'±	CORES: 500' - TAKEN AS WARRANTED
		DIL, BHC-SONIC-INT, GR-FDC, PROX-ML, DIPMETER (FROM 3500')	1°/1000' OF DEPTH	GREEN RIVER ZONE 1 3900' ZONE 2 7400' ZONE 3 8800'	DST'S: 10 DST'S BETWEEN 3500' & TD. DEVIATION CONTROL DOGLEG SEVERITY NOT TO EXCEED 1½°/100' INTERVAL
12¼"	9⅝"	2 MAN MUD LOGGING UNIT		WASATCH TRANS. 11,300'	CEMENT SEE "DRLG. PROGNOSIS" FOR DETAILS
8⅝" ±	7" IF NEEDED			13,000'	MUD SEE "DRLG. PROGNOSIS" FOR DETAILS

GENERAL

SFC - 3500' ± WATER

3500' - 11,300' ± LOW SOLID

11,300' - TD WEIGHTED WATER GEL

ORIGINATOR DES DATE 7/23/70

ENGINEERING APPROVAL: JKS

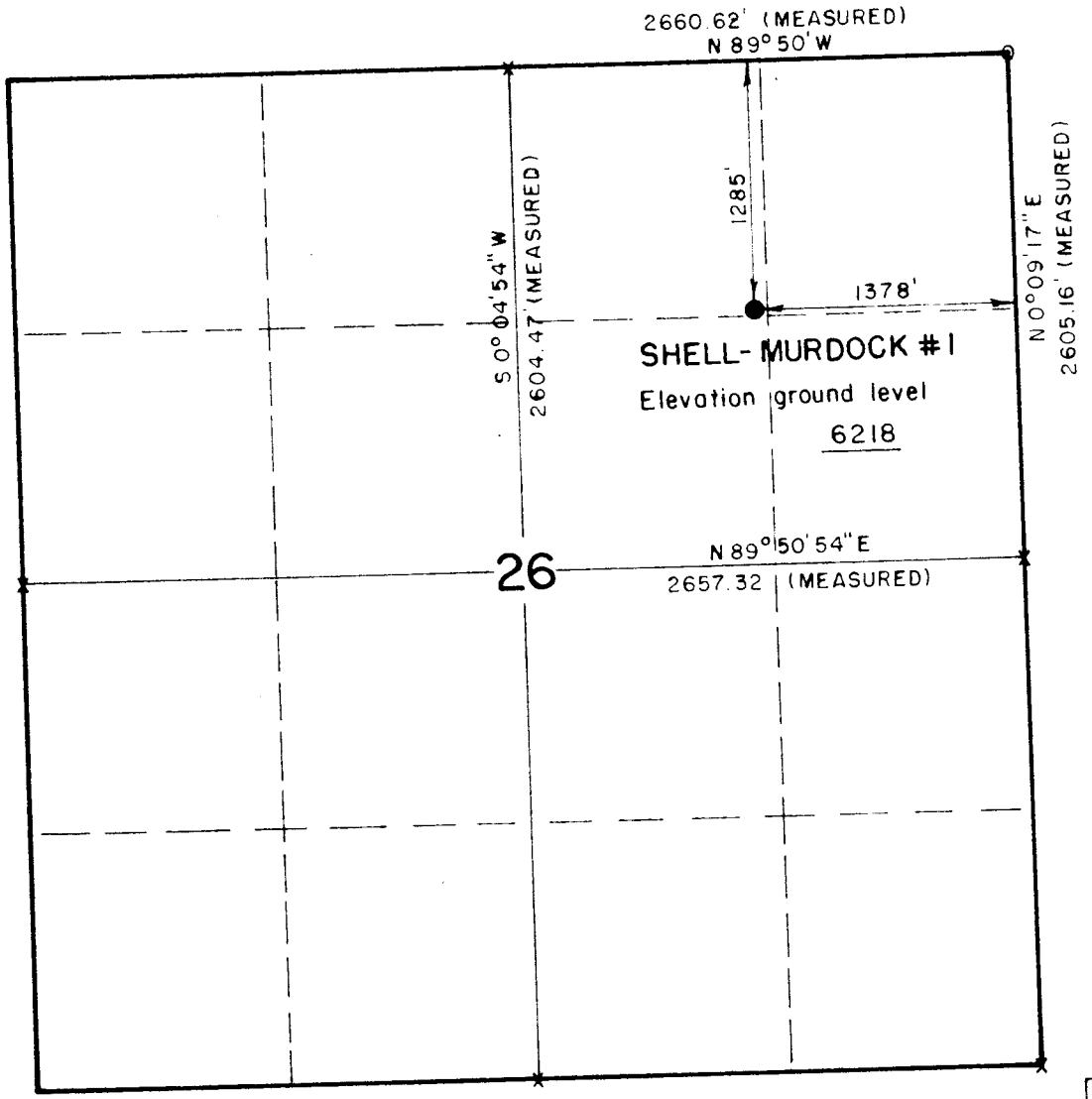
EXPLOITATION

MECH.

OPERATIONS APPROVAL:

DIV. DRILLING SUPT.

T 2 S, R 5 W, USB&M



X = CORNERS LOCATED (STONE)

O = CORNER RE-ESTABLISHED

PROJECT

SHELL OIL COMPANY

WELL LOCATION AS SHOWN IN THE NE1/4, SECTION 26, T 2 S, R 5 W, U.S.M. DUCHESNE COUNTY, UTAH.

N

[redacted]

Dave Stewart

REGISTERED LAND SURVEYOR
REGISTRATION NO. 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P O BOX Q — 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 19 AUGUST, 1970
PARTY GS - MS - DA	REFERENCES GLO FIELD NOTES & PLAT
WEATHER FAIR & HOT	FILE SHELL

August 24, 1970

Shell Oil Company
1700 Broadway
Denver, Colorado 80202

Re: Well No. Shell-Murdock #1
Sec. 26, T. 2 S, R. 5 W,
Duchesne County, Utah
API No. 43-013-30049

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted. However, this approval is conditional upon this office receiving a written statement to the effect that Shell owns all the acreage in a 660' radius of the proposed well site, and, that the location results from topography. (Rule C-3(c)

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL-Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

This approval terminates within 90 days if the well has not been spudded-in within said period.

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation with regard to this request will be greatly appreciated.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:SD

Form OGCC-3

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: 20100

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Murdock

9. WELL NO.: Shell-Murdock No. 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Approx. C NE/4 Section 26-T2S-R5W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Shell Oil Company (Rocky Mountain Division Production)

3. ADDRESS OF OPERATOR: 1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*

At surface: 1285' FNL and 1378' FEL Section 26

At top prod. interval reported below

At total depth

14. PERMIT NO.: 43-013-30049 DATE ISSUED: 8-24-70

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
9-1-70	4-2-71	4-27-71	6218 GL, 6233 KB	15'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
13,880	11,200		→	Total	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Green River-Wasatch 11,155-11,200

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL/SP, Int BCHS/GR/Cal, PL/ML/Cal, SNP/GR/Cal FDC/GR/Cal, 4-arm Dipmeter, Var. Density w/comp wave display, *

27. WAS WELL CORED: Yes

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5	1094	17½"	900 sx	0
9 5/8	40 & 47	9598	12¼	350 sx	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
7 5/8"	8729	11,155	325	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*)

As per attachments.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
4-28-71	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
8-11-71	24	31/64"		324	115	0	355

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
250 psi				As above		39.8° @ 60°F

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS: Well Log and History, Geologic Report and Casing and Cementing Details

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED J. C. Hardwick For J. C. Howell TITLE Division Operations Engr. DATE 9/3/71

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			As per attachments			

SEP 7 1971

* Induction log w/collar locator.

OWN INTEREST DRILLING

UTAH

NO. UINTA BASIN

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

"FR" Preparing location.
Located 1285' FNL & 1378' FEL, approximately C NE/4 Section 26-T2S-R5W, Duchesne County, Utah.
Elev: 6218 GL
13,000' Wasatch Test
Shell Working Interest - 100%
Drilling Contractor - Brinkerhoff Drilling Company
Murdock No. 1 is the third exploratory test in area of major acreage concentration in North Uinta Basin. AUG 27 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

MIRT. AUG 28 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

RURT. AUG 31 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

RURT. SEP 1 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

144/112/1/144. Drilling.
Spudded 2:30 p.m. 9/1/70.
Mud: 8.7 x 42 x 8 (sal 100). SEP 2 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

461/112/2/317. Drilling. SEP 3 1970
Mud: 9 x 38 x 8.8 (sal 100) (plastic vis 10) (yield point 7).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

638/112/3/177. Reaming w/new bit at 481'. Dev 1° @ 420', 1½° @ 611'. SEP 4 1970
Mud: 9 x 38 x 10.8 (sal 350) (plastic vis 8) (yield point 10).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

1102/112/7/464. Drilling.
Ran and cmtd 36 jts 13 3/8" at 1094' w/700 sx 1:1 poz and 200 sx Class "G" cmt. Nippled up and tested BOP's to 1500 psi, held ok.
Mud: Water. SEP 8 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

1586/112/8/484. Drilling.
Twisted off at 1484' & left all DC's in hole. Recovered fish w/Bowen overshot. SEP 9 1970
Mud: Water.

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

2054/112/9/468. Drilling. Dev 1° @ 1916'.
Mud: Water. SEP 1 0 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

2469/112/10/415. Drilling. Dev 3/4° @ 2327'.
Mud: Water. SEP 1 1 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

3507/112/13/1038. Drilling.
Lost circ while drilling @ 3396'. Total fluid lost 350 bbls ±.
Mud: 8.8 x 40 x 8.3 (LCM 8%) (plastic vis 11) (yield point 4).
SEP 1 4 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

3632/112/14/125. Drilling. Dev ½° @ 3615. SEP 1 5 1970
Mud: 8.8 x 37 x 7.6 (LCM 5%) (plastic vis 10) (yield point 3).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

3855/112/15/223. Drilling w/Bit #13.
Lost circ at 3730' (400 bblsi). Recovered w/LCM. SEP 1 6 1970
Mud: 8.8 x 39 x 9 (LCM 9%) (plastic vis 13) (yield point 4).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

4059/112/16/204. Drlg. Lost 250 bbls @ ± 4059.
Regained circ w/lost circ materials. SEP 1 7 1970
Mud: 8.8 x 37 x 8.1 (LCM 7%) (plastic visc 15) (yield point)

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

4259/112/17/200. Drilling w/Bit #14. Dev 3/4° @ 4202.
Bit #13 Smith Type 4JS pulled at 4202'. Made 587' in 53 hrs, 55-60,000#, 56 rpm's, 1800 psi, T_4-B_6. SEP 1 8 1970
Mud: 8.8 x 46 x 8.6 (LCM 11%) (plastic vis 18) (yield point 6).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

4816/112/20/557. Drilling. Dev: 1¼° @ 4847.
Bit #14 out @ 4847'. Cut 645' in 69 3/4 hrs. Jets 3-12, 55-60,000#, 60 rpm's, 1,500 psi.
Mud: 9.1 x 40 x 7.7 (sal 370) (LCM 9%) (plastic vis 18) (yield point 4). SEP 2 1 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

5066/112/21/250. Drilling. SEP 2 2 1970
Mud: 9.1 x 40 x 7.5 (sal 430) (LCM 11%) (salt 7%) (ph 7.5).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

5170/112/22/104. Running DST #1 4970-5170.
Dev: 1-3/4° at 5170.
Bit #15 Reed SCM jets 3-12. Made 323' in 36½ hrs. 60,000#, 60 rpm, 1200 psi. Pulled for DST.
Mud: 8.8 x 41. SEP 2 3 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

5278/112/23/108. Drilling.
DST No. 1 4970-5170.
Op 5 min, ISI 90 min, Op 60 min, FSI 180 min.
Op w/immediate strong blow, GTS in 5 min.
Second flow period - opened w/moderate blow, increased to very strong in 3 mins.

Time	Gas Rates (MCF/D)
8:00 a.m.	115 (Tool opened)
8:20 a.m.	296 (Maximum)
8:55 a.m.	94 (Tool closed)

Recovered 17 bbls GCM and 6 bbls G & WCM w/trc oil.
Sample chamber contained: 825 cc's total fluid
700 cc's mud
125 cc's water
Press - 700 psi, 2.4 CF gas.
Rw = 0.1 @ 70°F (37,950 ppm NaCl)
Rm = 2.6 @ 70°F (660 ppm NaCl)
IHP 2359, IFP 318-318, ISIP 2035 (stab), FFP 394-947, FSIP 2035 (stab), FHP 2349.
BHT - 109°F
Mud: 8.9 x 46 x 7 (sal 1450) (LCM 11%) (plastic vis 19) (yield point 9). SEP 2 4 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

5454/112/24/176. Drilling.
1 hr circ samples at 5450.
Mud: 9.0 x 42 x 7.4 (sal 200) (LCM 10%) (Oil 0) (gel 0 & 5) (plastic vis 17) (yield point 5). SEP 2 5 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

6032/112/27/578. Drilling.
Bit #17 12¼" Smith 4-JS out at 5663. 493' in 58 3/4 hrs.
1 seal gone on bearings.
Mud: 8.9 x 39 x 8 (sal 720) (LCM 15%) (plastic vis 15) (yield point 4). SEP 2 8 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

6275/112/28/243. Drilling.
Mud: 9 x 38 x 7.8 (sal 700) (LCM 12%) (plastic vis 14) (yield point 5). SEP 2 9 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

6408/112/29/133. Pulling misrun DST #2. Tester stuck at 6388 and jarred loose.
Mud: 9 x 40 x 7.2 (sal 700) (LCM 10%) (plastic vis 14) (yield point 5). SEP 3 0 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

6474/112/30/66. Running DST No. 2 6299-6474.
Bit # 17 Smith 4-JS 12¼" out at 6408. Drilled 745' in 75¼ hrs. Grade B_1.
Mud: 9 x 45 x 8.1 (sal 670) (LCM 10%) (plastic vis 16) (yield point 9). OCT 1 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

6487/112/31/13. Drilling.
DST No. 2 6299-6474
Op 7 min. Op'd w/fair blow, increasing to strong in 2 min. continued strong. No GTS. SI 90 min. Op 60 min, op'd w/fair blow, increased to strong in 2 min, decreased to fair in 8 min, increased to strong in 15 min, continued strong, no GTS. SI 180 min.
Recovered 690' G & OC mud.
Sample chamber contained 550 cc's total recovery
275 cc's oil
275 cc's mud
0.71 cf gas at 200 psig
Bottom outside recorder at 6311 (press's)
IHP 3100, IFP 141-179, ISIP 2959 (inc), FFP 179-218, FSIP 2754 (inc), FHP 3075. Max temp 123°F.
Magna-fluxed all DC's, stabilizers, and subs.
Strapped in hole.
Mud: 9 x 47 x 8.3 (sal 600) (LCM 10%) (plastic vis 17) (yield point 6). OCT 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

7036/112/34/549. Making trip for new bit.
Bit #18 12¼" Security SS-88 out at 7036.
Made 628' in 79 hrs.
Mud: 9.2 x 42 x 6.9 (sal 660) (LCM 12%) (plastic vis 16) (yield point 6). OCT 5 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

7081/112/35/45. Running DST No. 3. Dev: 2½° @ 7036.
Mud: 9.1 x 44 x 6.7 (sal 630) (LCM 10%) (plastic vis 17) (yield point 7). OCT 6 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

7131/112/36/50. Drilling.
DST No. 3 6928-7081
Op 5 min. Op'd w/good blow, strong blow in 3 min.
No GTS. SI 90 min.
Op 75 min. Op'd w/good blow, strong blow in 2 min, increased slightly throughout.
Max rate - 4.6 MCF/D air in 75 min. No GTS. SI 225 min.
Recovery as follows:

183'	(2.6 bbls)	HGCM
289'	(4.1 bbls)	SO & HGCM
688'	(9.8 bbls)	O & HGCM
1022'	(12.6 bbls)	O, G, & WCM
Total 2182'	(29.1 bbls)	

Sample chamber contained:
0.55 CF gas at 675 psig
2050 cc's water (RW = 1.56 @ 57°F)
175 cc's oil
Pit mud: Rm = 2.6 @ 58°F.
680 ppm Cl
IHP 3351, IFP 109-252, ISIP 3208, FFP 252-1043, FSIP 2941, FHP 3304.
BHT - 134°F.
Mud: 9.1 x 44 x 6.7 (sal 1680) (LCM 10%) (plastic vis 17) (yield point 7). OCT 7 1970

Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test	7337/112/37/206. Drilling. DST No. 3 water from sample chamber Titration = 20,900 ppm Cl Mud: 9.1 x 60 x 7 (sal 1900) (LCM 13%) (plastic vis 22) (yield point 18). OCT 8 1970
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test	7516/112/38/179. Drilling. Mud: 9.1 x 42 x 7.0 (sal 2050) (LCM 15%). OCT 9 1970
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test	7962/112/41/446. Drilling. Dev: 2° @ 7961. Bit #19 rebuilt 12¼" Smith 4JS out @ 7961. Made 655' in 86¼ hrs. Mud: 9.1 x 41 x 7 (sal 2750) (LCM 10%) (plastic vis 15) (yield point 6). OCT 1 2 1970
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test	8164/112/42/202. Drilling. Mud: 9.2 x 43 x 7 (sal 2500) (LCM 11%) (Oil 3%) (plastic vis 17) (yield point 7). OCT 1 3 1970
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test	8303/112/43/139. Tripping. Bit #20 12¼" Smith 4JS out at 8303. Cut 612' in 76 hrs. Mud: 9.1 x 45 x 7.1 (sal 2750) (LCM 12%) (Oil 2½%). OCT 1 4 1970
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test	8480/112/44/177. Drilling. Mud: 9.1 x 43 x 7.3 (sal 2500) (LCM 12%) (plastic vis 18) (yield point 6). OCT 1 5 1970
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test	8649/112/45/169. Drilling. Mud: 9.2 x 43 x 7.2 (sal 2350) (LCM 10%) (Oil 1½%) (plastic vis 17) (yield point 6). OCT 1 6 1970
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test	9105/112/48/456. Drilling. Mud: 9.2 x 42 x 7.4 (sal 2400) (LCM 11%) (Oil 1%) (plastic vis 17) (yield point 7). OCT 1 9 1970
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test	9300/112/49/195. Drilling. Mud: 9.2 x 43 x 7.3 (sal 2250) (LCM 12%) (Oil 1%) (plastic vis 18) (yield point 8). OCT 2 [illegible] 1970
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test	9357/112/50/57. Circ for core. Bit #22 12¼" Smith 4JS out at 9326'. 462' in 57 3/4 hrs. Rebuilt bit condition T-6, B-6, locked. Mud: 9.2 x 43 x 7.7 (sal 2200) (LCM 10%) (Oil 1%) (plastic vis 19) (yield point 9). OCT 2 1 1970
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test	9383/112/51/26. Coring. Dev: 2 3/4° @ 9357. Began coring at 9357. Mud: 9.2 x 44 x 7.8 (2300 ppm salt) (LCM 11%) (Oil 2%) (plastic vis 18) (yield point 9). OCT 2 2 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9393/112/52/10. Prep to run DST #5.
Core No. 1 9357-9393. Cut and rec'd 36'.
9357-9382.8 Sh, dk gry
9382.8-9393 Sh, blk
Fractures - 9357-9373 Abundant open fractures (20° from vert to vert), green oil on fractures, calcite filling at 9372.
9373-9375 Vertical fractures
9375-9381 Fractures less common
9381-9393 Moderate fracturing, pyrite blebs at 9387.5
Mud: 9.2 x 44 x 7.8 (sal 2300 ppm) (LCM 11%) (Oil 2%) (plastic vis 18) (yield point 9). OCT 2 3 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9490/112/55/97. Drilling. Dev: 2¼° @ 9485.
DST No. 5 9316-9393.
Op 5 min, op'd w/weak blow, increased to strong in 5 min. No GTS. SI 90 min.
Op 60 min, op'd w/weak blow, increased to strong immediately, continued strong throughout. GTS in 20 min. SI 180 min.
Recovery
Reversed out: 20 bbls GCO (gas-cut oil)
dk green, waxy. Fluoresces, creamy white
Sample chamber contained: 1.4 cu ft gas at 275 psi
660 cc's oil
Press's (outside recorder at 9322)
IHP 4596, IFP 204, ISIP 4507, FFP 381, FSIP 4241, FHP 4558.
BHT - 176°F.
Reamed 10¼ hrs.
Mud: 9.2 x 45 x 8.1 (salt 1900) (LCM 12%) (Oil 1%) (plastic vis 19) (yield point 9). OCT 2 6 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9530/112/56/40. Drilling.
Mud: 9.2 x 45 x 8.2 (salt 1900) (LCM 7%) (Oil 3%) OCT 2 7 1970
(plastic vis 20) (yield point 10).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9598/112/57/68. Building mud. Lost circ and attempting to regain. OCT 2 8 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9598/112/58/0. Conditioning hole for logs.
Mud: 9.2 x 43 x 7.7 (salt 900) (LCM 21%) (Oil 1%)
(plastic vis 18) (yield point 8). OCT 2 9 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9598/112/59/0. Logging.
Mud: 9.2 x 58 x 6.8 (sal 1,000 ppm) (LCM 25%) (Oil 1%)
(plastic vis 26) (yield point 14). OCT 3 0 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch
Test

9598/112/62/0. Logging. Ran logs -- list run later.
Made two trips to circ and condition hole.
Mud: 9.2 x 57 x 6.5 (sal 1,100) (LCM 25%) (Oil 1%)
(plastic vis 27) (yield point 14). NOV 2 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9598/112/63/0 Circ & cond mud to run csg. Ran logs as follows: DIL/SP, Int BHCS/GR/CAL, FL/ML/CAL, SNP/GR/CAL, FDC/GR/CAL, 4-arm Dipmeter, Variable Density w/compressional wave display using 6-12' acoustic tool, Borehole Televiewer attempted. Results unacceptable in 12¼" hole.
Core slicer cut following intervals:

8921-24
8537-40
8321-24
8213-16)
8109-12) Recoveries mixed in core catcher
7256-59
7215-18
5332-35 No recovery

Detailed description of cores will follow later.
Laid down 10 - DC's.
Ran drlg assembly to circ for csg. NOV 3 1970
Mud: 9.2 x 57 x 6.5 (sal 1200) (plastic visc 28) (yield point 14) (LCM 21%) (Oil 1%)

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9598/112/64/0. Running 9 5/8" OD csg. NOV 4 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9598/112/65/0. Nippling up.
Ran and cmt 230 jts (9617') 40-47# S-95 9 5/8" csg @ 9593' w/150 sx 1:1 poz, 1% CFR-2, .2% HR-4, followed by 200 sx Class "G" Neat cmt, 15% salt, 1% CFR-2 and .3% HR-4. Plug down 1:55 p.m. 11/4/70. Landed and cut off csg. Changed BOP's. NOV 5 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9598/112/66/0. Tripping in hole. Changed to 1500 series BOP's. Press tested blind rams to 2,000 psi, ok. Laid down 15 - 8" DC's and picked up 21 - 7" DC's. Ran in hole putting rubbers on DP. NOV 6 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9763/112/69/165. Prep to core. Changed to 1500 Series BOP. Press tested blind rams to 2,000 psi, ok. Laid down 15 8" DC's and picked up 21 7" DC's. Installed rubbers on DP. Press tested pipe rams and hydril to 2,000 psi. Drld plug, float collar and shoe. Raised mud weight to 10#.
Mud: 10.3 x 44 x 6.9 (sal 1100) (Oil ½%) (plastic vis 21) (yield point 6). NOV 9 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9775/112/70/12. Coring on Core #3.
Core No. 2 9763-9764.5. Cut and rec'd 1.5'.
Details on desc later.
While cutting Core #2, lost pump pressure, pulled out, tools ok.
Mud: 10.2 x 44 x 6.7 (sal 1100) (plastic vis 2) (yield point 5). NOV 10 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9812/112/71/37. Running in w/drlg assembly.
Core No. 2 9763.5-9765. Cut and rec'd 1.5'
9763.5-9763.75 Marlstone, dk brn to blk. Orthogonal set of fractures. Both fracture faces lined w/calcite crystals.
9763.75-9765 Thin bedded tan to dk brn marlstone.
Core No. 3 9765-9812. Cut 47'. Rec'd 45'.
Details later.
Mud: 10.3 x 45 x 6.8 (sal 1050) (plastic vis 21) (yield point 6). NOV 11 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9812/112/72/0. Going in hole w/tooth bit.
Core No. 3 9765-9812. Cut 47'. Rec'd 45'.
9765-9780 Sh, lt-med brn, calc, laminated to thin bedded, hard, vertical fracs w/calcite coating, interlaminated dk brn sh, dolo, hd, spotty nat fluor and yellow streaming cut fluor.
9780-9781 Sh, a. a., sli darker colored, organic. Material on bedding planes, wavy bedding w/very small scale cross-bedding.
9781-9810 Sh, med-dk brn, very dk laminations, calc to dolomitic, small vert fracs w/calcite lining, spotty nat yellow-green fluor and cut fluor.
9810-9812 No recovery.
Unable to get to bottom drlg assembly. Reamed from 9600-9660 and pulled out dropped stabilizer. Ran back and worked down to 9668. Unable to rotate, pulled out, laid down reamer and button bits.
Mud: 10.2 x 44 x 6.8 (sal 1130 ppm) (plastic vis 21) (yield point 5). NOV 12 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9812/112/73/0. Circ at 9678. Unable to get below 9678 w/tooth bit; pulled out. Ran Schl Induction log w/collar locator, csg indicated ok. Ran 8 5/8" flat bottom junk mill to 9598, ok. Pulled and ran tooth bit on 6 7" DC's.
Mud: 10.3 x 46 x 6.5 (sal 1300) (plastic vis 22) (yield point 5). NOV 13 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9814/112/76/2. Going in hole w/bit.
Reamed hole w/tooth bit on 6 DC's from 9690-9812. Drld to 9814. Pulled into csg and ran back to bottom ok. Pulled out and ran button bit - BH reamer stabilizer 40' above bit. Stopped at 9695. Reamed to 9814; would not drill. Pulled out and left button bit in hole. Ran in openended and could not screw on to bit. Ran impression block; results inconclusive. Ran skirted magnet to straighten bit in hole. Ran openended DC's; unable to screw onto bit. Ran tooth bit on 6 DC's to cond hole.
Mud: 10.5 x 60 x 6.1 (sal 700) (plastic vis 33) (yield point 11). NOV 16 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch
Test

9814/112/77/2. Reaming and cleaning hole.
Ran tooth bit to 9812. Ran bit 1¼ hrs and pulled out. Pumped two joints out of tight hole and bit wore out. Ran tooth bit on 21 DC's w/drlg jars. Reamed from 9640-9688.
Mud: 10.4 x 52 x 6 (sal 1500) (plastic vis 31) (yield point 11). NOV 1 7 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9815/112/78/1 Reaming @ 9740. Reamed & cleaned out from 9688-9814, drld 1' to 9815. Pulled into csg & ran back.
Mud: 10.7 x 154 x 5 (sal 1300) (plastic visc 69) (yield point 41) NOV 1 8 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9815/112/79/0. Running DST #5.
Reamed and CO to bottom from 9740-9815. Circ & cond hole for DST.
Mud: 10.5 x 118 x 4.7 (LCM 18%) (plastic vis 55) (yield point 39). NOV 1 9 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9815/112/80/0. Reaming.
DST #6. 9598-9816.
IF 10 min, immed strong blow. ISI 90 min.
FF 120 min, immed strong blow, decreased gradually to weak blow. No GTS. FSI 390 min.
Recovery: 20 bbls drlg mud (Rw = 2.32 at 77°F).
(Rw mud = 2.2 at 80°F).
Sample chamber contained:
2.4 CF air at 150 psi.
2,000 cc's mud (Rw = 2.87 at 70°F).
Press's: (Recorder at 9546)
IHP 5401, IFP 1063-1136 (not stab), ISIP 4893, FFP 1310-1830 (bldg very slowly), FSIP 4627, FHP 5381.
BHT - 161°F.
Ran 7 7/8" bit on one 6½" OD DC. Began reaming at 9753 - tight hole.
Mud: 10.7 x 60 x 4.7 (sal 1400) (LCM 20%) (plastic vis 42) (yield point 25). NOV 2 0 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9815/112/83/0. WOC. Ran 7 7/8" bit and reamed from 9753-9766, hole tight. Reamed w/8 5/8" from 9667-9811. Reamed 7 7/8" from 9787-9815. Ran GR Sonic w/cal. Reamed w/7 7/8" from 9802-9815. Unable to keep bottom 12' of hole open without rotating. Ran openended DP to 9815' and cmt'd w/150 sx salt-sat Type "G" w/1/8#/sx Tuf-fiber. Completed displacement 3:40 a.m. 11/23/70.
Mud: 10.7 x 75 x 4.6. NOV 2 3 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9815/112/84/0. WOC. NOV 2 4 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9815/112/85/0. WOC; Circ and condition at 9590.
Ran 8 5/8" bit to 9590. Circ cmt contaminated mud.
Mud: 10.6 x 70 x 4.8. NOV 2 5 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

9912/112/90/97. Drilling. Drld cmt from 9673-9815.
Ran three mills on junk. Ran bit and baskets.
Drld to 9830. Ran bit to drill. NOV 3 0 1970
Mud: 10.6 x 50 x 4.8.

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

10,022/112/91/110. Drilling.
Bit #39 4JS 192' in 39 hrs. DEC 1 1970
Mud: 10.6 x 46 x 4.7

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

10,080/112/92/58. Tripping.
Bit #39 4JS out at 10,080'. Made 250' in 59½ hrs.
Bit weight 50,000#. 50 RPM. DEC 2 1970
Mud: 10.5 x 48 x 4.8.

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

10,137/112/93/57. Drilling. Strapped DP on trip for Bit #40.
Mud: 10.7 x 50 x 4.7 (sal 1400) (LCM 10%) (plastic vis 33) (yield point 6) DEC 3 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

10,151/112/94/14. Running in w/core bbl.
Mud: 10.6 x 47 x 4.8 (sal 1450) (LCM 8%) (plastic vis 31) (yield point 7) DEC 4 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

10,229/112/97/78. Running DST #6.
Spot reamed w/core bbl from 9791-10,151 (360')
Core #4 - 10,151-10,207. Cut 56', rec'd 55'.

10151-53	Sh, dk, gry, sli calc, hard
10153-54	Ss, lt gry, vfg-fg, very sli calc, hard, tite, no vis por, some spotty nat fluor and pale yellow cut fluor
10154-55	Sh, dk gry, hd, calc
10155-65	Siltst grading to ss a.a., some spty nat fluor, occ white cut fluor
10165-66	Sh, blk, calc
10166-70	Ss a.a., vfg, some weak cut fluor
10170-76	Sh, blk, calc
10176-77	Siltst, gry, hd, siliceous
10177-81	Sh, blk, calc
10181-82	Sh, a.a., w/ostracods
10182-84	Sh, a.a., w/o ostracods
10184-85	Sh, a.a., w/ostracods
10185-206	Sh, dk gry to blk, sli calc to cal, w/occ siltst stringers w/no shows.
10206-07	No Recovery

Note: Fracture pattern mainly vertical and primarily in the shale sections. DEC 7 1970

Ran mill tooth drlg bit and reamed from 9904-10,207 (303').
Drld to 10,229 and pulled for DST No. 7.

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test

10,229/112/98/0. Reaming at 9819.
DST No. 7 9598-10,229 (Pkr. set in casing).
Op 10 min - op w/fair to good blow (5" H_2O).
Increased to strong blow (12" H_2O) in 1 min. Continued strong throughout. No GTS.
SI 90 min.
Op 120 min - op w/fair blow (3" H_2O). Increased to strong blow (12" H_2O) in 2 min. No GTS.
SI 300 min.
Recovery: 35 bbls GCM w/trace oil.
(Sample chamber contents and max temperature will be reported later.)
Pressures (Recorder @ 9587): IHP 5483, IFP 699-827, ISIP 5039 (inc.), FFP 1127-1798, FSIP 4869 (inc. slightly), FHP 5440.
Ran milled tooth bit to shoe of 9 5/8" csg. Cond mud and ran to 9677. Reamed from 9677-9819.
Mud: 10.8 x 70 x 5 (sal 2000) (LCM 9%) (plastic vis 39) (yield point 15) DEC 8 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

10,229/112/99/0. Reaming at 10,163.
Addition to DST No. 7 reported yesterday:
Sample chamber contained: DEC 9 1970
0.53 CF gas at 500 psig
1700 cc's mud (Rm = 0.19 at 57°F)
No wtr
Max Temp - 164°F
Reamed from 9819-10,163 (344'). Lost approx 300 bbls mud last 24 hrs.

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

10,262/112/100/33. Drilling.
Mud: 10.8 x 61 x 4.8 (sal 2,000) (LCM 12%) (plastic vis 40) (yield point 13) DEC 10 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

10,364/112/101/102. Drilling.
Mud: 10.9 x 59 x 4.7 (sal 1800) (LCM 10%) (plastic vis 35) (yield point 11) DEC 11 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

10,523/112/104/159. Coring.
Drilled to 10,495. Pulled out and magnafluxed all DC's and core bbl. Laid down 5 bad DC's. Reamed with core bbl from 9990-10,495 (505'). Gas cut mud @ 10,519'.
Bit #43 8 5/8" Smith 4JS cut at 10,495. Cut 247' in 61½ hrs.
Mud: 11.1 (in) 10.2 (out) x 71 x 4.8 (sal 2100) (LCM 10%) (plastic vis 36) (yield point 13) DEC 14 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

10,548/112/105/25. Circ and cond mud.
Lost partial circ while coring at 10,548. Pulled into shoe of 9 5/8" csg. Mixed mud and lost circ material; regained circ. Total mud lost - 400-500 bbls.
Mud: 11.1 x 84 x 4.4 (sal 1500) (LCM 16%) (plastic vis 52) . (yield point 16) DEC 1 5 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

10,573/112/106/25. Drilling.
Core No. 5 10,495-10,548. Cut and rec'd 53'.

10,495-10,496.5	Sltst, med-lt gry, calc, very hd, tite, two fractures: one vert; one 80° from hor; both partly healed w/calcite
10,496.5-10,503.5	Sh, interbedded, dk gry grn, med gry and blk, dolo, freq pyritic, bored and churned, occ 75° (from hor) partly healed fracs
10,503.5-10,504.0	Sltst, med gry, calc, abund carb mat, 70° (from hor) frac partly healed
10,504.0-10,504.8	Sh, dk gry to blk, calc, abund ostracods, abund ½" to 1" shell fragments
10,504.8-10,509.0	Sh, a.a., occ large shells, laminated, partly healed fracs, 45° to 70° from hor, bleeding gas slightly
10,509.0-10,511.0	Slty sh, med gry, abund ostracods, fractures: one vert, one 60° from hor, partially calcite filled
10,511.0-10,514.0	Sh, very dk brn to dk gry, dolo, abund ostracods, occ shell frags (½" to 1")
10,514.0-10,524.0	Interbedded sh & sltst, med gry to blk, calc, occ fracs (45° to 60° from hor), freq ostracods, pale grn cut fluor in sltst, blk sh inclusion @ 10,524 w/minor faulting
10,520-10,524	Bleeding gas slightly
10,524-10,530	Interbedded sh & sltst, grn-gry to med gry, dolo, pyritic, vert fracs, bleeding gas slightly
10,530-10,531	Ss, wh to gry, lower fine, calc, tite, N.S.
10,531-10,532	Ss, lower fine to coarse, graded bedding, very poor sorting, approaches conglomerate, hairline 45° fractures, N.S.
10,532-10,535	Interbedded sltst and silty sh, gry to gry-grn, sli calc, pyritic, fractures (70° to 90° from hor), bleeding gas slightly
10,535-10,548	Sh, interbedded med gry & blk, calc, pyritic, freq ostracods, occ thin fracs (45° to 80° from hor), bleeding gas slightly

Note: No free oil
No natural stain
No vis porosity

Ran drlg assembly. Washed and reamed from 10,540-10,548.
Mud: 11.2 x 70 x 3.6 (sal 1000) (LCM 16%) (plastic vis 42) (yield point 14) DEC 1 6 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

10,616/112/107/43. Coring.
Drilled to 10,582. Pulled and ran core bbl. Washed and reamed w/core bbl 10,572-10,582. On Core #6 cut 32' in 10 hrs.
Mud: 11.3 x 68 x 4 (sal 950) (LCM 15%) (plastic vis 48) (yield point 15) DEC 1 7 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

10,646/112/108/30. Coring.
Core No. 6 10,582-10,642. Cut and rec'd 60'.
Details later.
Mud: 11.3 x 78 x 4.1 (sal 900) (LCM 18) (plastic vis 51) (yield point 17) DEC 1 8 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

10,765/112/111/119. Tripping core bbl.
Core No. 6 10,582-10,642. Cut and rec'd 60'.

10,582-10,584.5	Sh, blk, and silt, dk gry, lam, abundant ostracods, occ fish scales, and other fossils in sh, calc, grainstone of ostracods at 84.5, calcite filled fracs at 84-85 (vert)
10,584.5-10,590	Ls, shaley, occ ostracod packstone, calcite filled vert fracs w/yellow cut fluor. occ silty, med gry-brn, fluor grn-yellow, predom oolitic ls at 88-89.
10,590-10,599	Silt, med dk gry, calc, calcite filled fracs, occ claystone stringers, numerous frac.
10,599-10,608	Sh, dk brn, dolo-calc, ostracods, pyritic
10,608-10,615	Silt, med-lt gry, calc, claystone stringers, lam.
10,615-10,621	Silt, ss & sh interbedded, med dk-lt gry, abundant carb fragments, dolo, calc, bored and churned, frac'd
10,621-10,628	Lam med gray silt, blk sh, faint cut fluor
10,628-10,639	Silt, med gry w/grn claystone stringers, bored and churned, occ ss stringers, frac'd
10,639-10,642	Sh, v dk brn, silt, med gry, calc

Core No. 7 10,642-10,647. Cut and rec'd 5'.

10,642-10,643	Sh, dk brn, calc, abundant ostracods, packstone, calcite lined vert fracs 6" long, faint milky cut fluor on frac face.
10,643-10,644	Sh, dk brn-blk, v carb, grading to wacky-stone, calc-dolo.
10,644-10,646	Sh, dk brn, fissile, dolo
10,646-10,647	Sh, dk brn, packstone, calcite lined vert fracs 8" long, faint milky cut fluor on fracture face DEC 2 1 1970

(Cont'd)

(Cont'd)

Core No. 8 10,647-10,706. Cut and rec'd 59'.

10,647-10,651	Silt, sh, dk brn-gry, interbedded carb mat, calc
10,651-10,652	Sh, dk brn, calc-dolo
10,652-10,660	Silt, lt gry, calc-dolo, well cemented
10,660-10,661	Silt & sh, grading to dk gry, sh, dolo
10,661-10,662	Sh, dk gry, churned carb mat, dolo
10,662-10,665	A.a., plant impression
10,665-10,668	Silt, gry, interbedded and churned blk carb mat, ostracods, dolo
10,668-10,669	Sh, dk brn, interbedded blk carb mat, calc
10,669-10,671	Sh, blk, carb, calc-dolo
10,671-10,676	Sh, dk brn, w/interbedded and churned blk carb mat, calc-dolo, ostracods
10,676-10,682	A.a., w/interbedded lams of blk carb sh
10,682-10,683	Sh, dk brn, vert calcite healed fracture 10" long, calc
10,683-10,686	A.a., slightly calc
10,686-10,692	Sh, blk, ostracods, calc
10,692-10,694	Sh, blk and brn interbedded, calc-dolo
10,694-10,704	Silt, gry, calc, well cem, no depositional structure
10,704-10,705	A.a., grading to sh, gry, and dolo
10,705-10,706	Sh, gry, dolo

Mud: 11.3 x 58 x 4.2 (sal 1100) DEC 2 1 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

10,812/112/112/47. Cutting Core No. 10.

Core No. 9 10,706-10,765. Cut and rec'd 59'.

10,706-10,707	Silty sh, lt gry, sli calc, hd
10,707-10,708	Claystone, grn-gry, dolo, carb
10,708-10,711	Silty sh, lt gry, sli calc, hd
10,711-10,713	Claystone, gry dolo, carb
10,713-10,718	Sh, dk gry-blk, calc, carb
10,718-10,719	Silt, dk gry, v calc, carb
10,719-10,720	Silty sh, dk gry, mottled
10,720-10,721	Sh, blk, grades to gry silt
10,721-10,725	Silt, shaley, gry-lt gry, calc, carb
10,725-10,727	Sh, gry, grades to silty sh
10,727-10,731	Silt, shaley, lt gry
10,731-10,733	Claystone, brn-gry, dolo, carb
10,733-10,734	Sh, blk, bored and churned
10,734-10,735	A.a., w/lt brn, sh lams
10,735-10,737	Sh, dk brn to blk, silty, calc
10,737-10,744	Sh, lt gry, silty, sli calc to dolo
10,744-10,747	Sh, gry, calc to dolo
10,747-10,748	Sh, silty, lt gry
10,748-10,759	Silt, shaley, lt gry, hd, calc
10,759-10,763	Sh, blk, interbedded w/silt, lt gry, sli calc, carb
10,763-10,764	Sh, blk, sli calc
10,764-10,765	Sh, blk to dk brn w/interbedded brn silty strks

Note: No shows in core.

Mud: 11.3 x 80 x 4.2 (sal 1,000) (LCM 12%) (plastic vis 48) (yield point 13) DEC 2 2 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

10,838/112/113/26. Cutting Core No. 11.
Core No. 10 10,765-10,822. Cut and rec'd 57'.

10,765-10,766	Sh, silty, dk brn, churned
10,766-10,768	Sh, gry-brn, sli dolo to calc, carb
10,768-10,770	A.a., bleeding gas slightly
10,770-10,774	Sltst, dk gry to gry, calc
10,774-10,775	Claystone, grn-gry, mottled, dolo, silty
10,775-10,776	A.a., grading to lt gry sltst
10,776-10,784	Sltst, lt gry, calc, carb mat, hd
10,784-10,786	A.a., w/thin dolo blk sh lams and carb mat
10,786-10,787	Sh, dk brn, w/blk calc sh lams
10,787-10,788	Sltst, shaley, lt gry, calc
10,788-10,790	A.a., w/thin dk brn sh lams
10,790-10,791	Sltst, gry, calc, carb
10,791-10,792	A.a., w/dk brn to blk sh interb
10,792-10,793	Sltst, lt gry, dolo.
10,793-10,794	A.a., w/interb dk gry sh
10,794-10,796	Sltst, lt gry, calc
10,796-10,798	A.a., w/abund carb lams
10,798-10,799	Sh, dk brn to blk, silty, carb
10,799-10,800	A.a., grading to sltst, lt gry
10,800-10,801	Sltst, lt gry, calc, interb w/blk carb sh
10,801-10,802	Sh, silty, dk brn to blk, dolo, carb
10,802-10,803	Sh, gry, silty, mottled
10,803-10,806	Sltst, gry to lt gry, interb w/sh, dk gry, calc
10,806-10,808	Sh, silty, dk brn to blk, sli dolo to calc, carb
10,808-10,816	Sh, dk brn, interb w/sh, blk, calc
10,816-10,817	A.a., grading to sltst, gry-brn, carb, calc
10,817-10,818	Sltst, gry-brn, w/fine lams sh, blk, calc, carb
10,818-10,819	Sh, very silty, gry, calc, carb
10,819-10,821	A.a., mottled w/brn silty streaks
10,821-10,822	Sh, dk brn, dolo, w/blk sh lams, carb and gray calc silty streaks

Note: No shows in core.
Sltsts very well cmt and tite
Mud: 11.4 x 65 x 4.2 (sal 1500) (LCM 18%) (plastic vis 38) (yield point 12) DEC 2 3 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

10,882/112/114/44. Tripping in w/core bbl.
Core No. 11 10,823-10,882. Cut 59', rec'd 58'.
(Details later)
Mud: 11.6 x 61 x 4 (sal 1600) (LCM 19%) (plastic vis 26) (yield point 7) DEC 2 4 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

11,091/112/118/209. Cutting Core No. 12.
Core No. 11 10,822.5-10,882.5. Cut 60' - rec'd 58'.

10,822.5-10,824	Sltst, gry, very calc, interb w/blk sh lams, hd, tite, no shows.
10,824-10,834	Sh, med dk brn-blk, calc, hd, sli silty, thin bedded
10,834-10,835	Sh, a.a., spotty nat fluor, no cut fluor.
10,835-10,836	Sh, a.a., no fluor
10,836-10,854	Sh, gry to dk gry to blk, sli calc to calc, carb, 36-40 fissile, calcite filled vertical fracture @ 10,848 w/faint yellow nat fluor and pale yellow green cut fluor
10,854-10,880.5	Sh, gry-brn to blk, silty, sli calc to calc, 67-70 fissile
10,880.5-10,882.5	No rec.

Drld w/Bit #44 rerun from 10,882-11,052 - (170')
Began coring at 11,052.
Bit #44 8 5/8" Smith 4JS out at 11,052 - cut 204' in 70½ hrs.
Mud: 11.7 x 72 x 5 (sal 1800) (LCM 20%) (plastic vis 43) (yield point 18) DEC 2 8 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

11,110/112/119/19. Mixing mud and lost circ material.
Core No. 12 11,052-11,110. Cut and rec'd 58'.
Details later.
Ran drilling assembly to 11,110; unable to maintain full circ. Pulled to shoe of 9 5/8" csg.
Lost approx 250 bbls mud.
Mud: 11.8 x 72 x 5 (sal 1500) (LCM 20%) (plastic vis 40) (yield point 17) DEC 2 9 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

11,143/112/120/33. Drilling.
Established full circ. Mixed mud. Cond circ system while in csg. Ran back to 11,110 and drld ahead.
Core No. 12 11,052-11,110. Cut and rec'd 58'.

11,052-11,057	Sh, gry-grn, silty in part
11,057-11,061	Sh, a.a., sli calc to calc
11,061-11,064	Sh, lam gry-grn and dk gry, calc
11,064-11,067	Sh, blk-dk gry, fossiliferous, 8" vert healed fracture at 65, no stain or fluor
11,067-11,068	Sh, lt gry, calc
11,068-11,071	Sh, dk gry, v sli calc, fossiliferous
11,071-11,072	Sh, a.a., sli sdy, calc
11,072-11,076	Ss, gry-grn, vf gr, calc, shaley, frequent ostracods, tite, N.S.
11,076-11,078	Sh, grn, calc, carb
11,078-11,080	Ss, gry-grn, vf gr, calc, shaley, tite, N.S.
11,080-11,088	Sh, gry-grn, sli calc, silty, 7" vert healed fracture at 81, no stain or fluor
11,088-11,090	Ss, gry-grn, vf gr, calc, shaley, tite, N.S.
11,090-11,092	Sh, gry-grn, sli calc
11,092-11,097	Sh, gry, calc, silty
11,097-11,106	Ss, gry, vf gr, argil, calc, lam w/sh, dk gry, calc in 1/8" to 1" laminations
11,106-11,108	Sh, gry, sli calc
11,108-11,109	Sh, dk gry-blk, silty, calc
11,109-11,110	Sh, gry, calc, carb

Mud: 11.7 x 68 x 4.2 (sal 1300) (LCM 20%) (plastic vis 47) (yield point 22) DEC 3 0 1970

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'

11,161/112/121/18. Circ well through choke.
Well kicked while drlg at 11,161. Closed well in.
Circ mud weights at report time - 12.6 on DP, 11.3 on annulus.
Mud: 12.6 x 73 x 3.3 (sal 1800) (LCM 25%) (oil 8%) (plastic vis 50) (yield point 19) DEC 3 1 1970

Murdock No. 1
(WC) Brinkerhoff.
13,000' Wasatch Test
9 5/8" csg at 9598'

11,161/112/125/0. Circ through choke.
Well was dead 4 hrs 12/31/70. Unable to maintain full circ through chk. Could not kill well with 12.6# mud and raised wt to 13.5#. Well died. Pulled 3 stands to 10,860; DP wet. Installed circ head and rebuilt mud volume. Circ until well died. Pulled 15 stands inside csg; unable to circ. Well began flowing. SI to build mud volume.
Mud: 13.3 x 72 x 3.5 (sal 1900) (LCM 29%) (Oil 14%) (plastic vis 56) (yield point 25). JAN 4 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" Csg at 9598'

11,161/112/126/0. Mixing mud volume.
Killed well with 13 to 13.5# mud. Opened BOP's. Unable to maintain full circ. Cleaned pits. Mixed new mud volume.
Mud: 13 x 71 x 4.5 (sal 1000) (LCM 30%) (Oil 2%) (plastic vis 40) (yield point 11). JAN 5 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" Csg at 9,598'

11,161/112/127/0. Working DC string shots.
Ran DP w/bit to 9980. Attempted to CO inside DP; unable to get below 9460. Ran DC perf shots and unable to get below 7,000'. JAN 6 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" Csg at 9598'

11,161/112/128/0. Mixing mud to control well.
Ran bit to 10,450'. Perf shots to 9090, shot DP at 9090. JAN 7 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" Csg at 9598'

11,161/112/129/0. Pulling DP. Bit at 3210.
Pumped 150 bbls 12.5#/gal mud through DP perfs. 400 bbls down annulus to control flow. JAN 8 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" Csg at 9598'

11,161/112/132/0. Circ at 10,800. Pulled DP.
Pumped 100 bbls mud down csg. Closed blind rams. Installed rotating head. Opened blind rams. Well on vacuum. Ran bit without jets to 6078. Pumped 200 bbls 12.5# mud without LCM. No returns at sfc. Circ with bit at 9575. Lost all returns after 7 hrs with 12.4-12.5# mud. Regained circ with 12.3# mud. Lost 250 bbls mud last 15 hrs.
Mud: 12.6 x 75 (in) 12.4 x 109 (out). JAN 11 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" Csg at 9598'

11,161/112/133/0. Pulling bit to run 7 5/8" liner.
(Addition to wire of 11/3/70)
Sidewall core slices obtained on first logging run are described as follows:
7215-18 (Recovered approx 2 feet)
Oil shale, finely laminated, lt brown, calcareous, indurated very kerogenous, silty, pyritic, interbedded with sandy layers 1" to 2" thick, lt brn, pyritic, vf gr to silt, vertical fractures w/oil stain, some bleeding oil or oil filled.
7256-59 (Recovered approx 2 feet) JAN 12 1971
a.a.
(Cont'd)

(Cont'd)

8109-12 or 8213-16 (Recoveries (1) & (2) mixed in core catcher
(1) Full Recovery
Limestone (mudstone), lt gry, to black and brown, thinly bedded, laminated, hard, burrowed, very kerogenous, thin beds of fossils and clasts, vertical fractures (some w/fine calcite crystals).
(2) (Recovered 2 feet)
Limestone (mudstone), brown to dk gry, thinly bedded to laminated fine crystals of pyrite in pockets, hard, kerogenous (disseminated and along stylolites), silty, some quartz blebs near top, vertical fracture (up to 1/16" wide and partially filled with calcite).
8321-24 (Recovered 1.5 feet)
Limestone (mudstone) brown to dk gry, thinly bedded, hard, kerogenous, pyritic, slightly fossiliferous (ostracods), vertical fractures (hairline, but open).
8537-40 (Recovered 2.5 feet) (TGR3 Marker)
Claystone (mudstone), greenish gray, thinly bedded, hard, dolomitic, silty, pyritic, horizontal alignment of organic material, calcite filled vertical fractures near top.
8921-24 (Recovered 1.5 feet)
Limestone (mudstone), brown to lt gry, hard, dense, very silty, burrowed, some filled mud cracks, (shallow tidal flat deposit).
Ran bit to TD. Circ and cond'd to run liner.
Mud: 12.4 x 82 x 4.8 (plastic vis 56) (yield point 32) (gels 2&3). JAN 1 2 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" Csg at 9598'

11,161/112/134/0. Changing liners in pumps.
Pulled bits. Ran and cmt 56 jts (2426') 33.04# S-95 FJ hyd 7 5/8" liner at 11,141. Liner hanger at 8715. Cmt'd w/325 sx Class "G", .4% HR-4, and 1% CFR-2. Last 150 sx w/¼# Flocele/sx cmt. 15-16# slurry. Cmt in place 12:15 a.m. No circ during operation. JAN 1 3 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" Csg at 9598'
7 5/8" Liner at 11,141

11,161/112/135/0. Prep to sqz liner lap.
Changed liners in pump. Ran 8 5/8" bit to top of liner - no cmt. Pulled out and ran Schl temp survey - indicated top of cmt at 9800'. JAN 1 4 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" Csg at 9598'
7 5/8" Csg at 11,141'

11,161/112/136/0. Circ LCM at 8433.
Laid down 25 stands 4½" DP. Picked up 9 4 3/4" OD DC's. Set Halco RTPS sqz tool at 8526. Formation broke down at rate of 5 B/M at 1500 psi. Mixed and pumped in 150 sx Class "G" cmt with .4% HR-4 and 1% CFR-2. Displaced with 130 bbls drilling fluid. Max pmpg press 900 psi, final press 0. Cmt in place 9 p.m. 1/14/71. Pulled sqz tool. Ran drilling assembly to 8433. Installed DP rubbers on every other joint. JAN 1 5 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
9 5/8" csg at 9598'
7 5/8" liner at 11,155'

11,175/112/139/14. Circ hole clean.
Drld hd cmt from 8496-top of liner. Press tested liner lap to 2000 psi for 15 mins, ok. Pulled out and laid down (16) 7" DC's. Ran 6½" bit and (21) 4 3/4" DC' Picked up 81 jts 3½" DP with rubbers on every other joint. Drld cmt out of liner hanger. Drilled floating shoe; no cmt below shoe of liner. Circulate and condition mud 6 hrs. Pulled and picked up core bbl; unable to circ. Core bbl plugged. Pulled and ran 6½" bit to clean up circulating system.
Note: Corrected depth of 8 5/8" hole at 11,161 is 11,175. Liner hanger at 8729, liner shoe at 11,155.
Mud: 12.5 x 70 x 5.6 (sal 600) (Oil 1%) (P.V. 41) (Y.P. 9) JAN 1 8 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" csg liner at 11,155

11,196/112/140/21. Cutting Core No. 13.
Mud: 12.2 x 66 x 5.8 (sal 650) (Oil 2%) (P.V. 38) (Y.P. 14) JAN 1 9 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" csg liner at 11,155'

11,212/112/141/16. Running DST 8.
Core No. 13 11,175-11,212. Cut and rec'd 37'.

11,175-11,181	Sh, blk, sli calc
11,181-11,189	Sh, blk, very calc, numerous fossils, some fractures, fair to good slow cut
11,189-11,199	Sh, blk, slickenside, few fossils, slow cut 93-95
11,199-11,200	Sh, blk, pyrite nodules, slickenside, calc
11,200-11,203	Sh, blk, fossils and wood fragments, slickenside
11,203-11,207	Ls, blk, fossil hash, gastropods, fault plane slickenside
11,207-11,208	Sh, blk, calc, fossils
11,208-11,209	Sh, a.a. w/1" coal bed
11,209-11,210	Sh, blk, brn streak, fossils (gastropods)
11,210-11,212	Sh, blk, crushed and broken

Mud: 12.7 x 75 x 5.8 JAN 2 0 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" csg liner at
11,155'

11,212/112/142/0. Circ and cond hole for core.
DST No. 8 11,155-11,212
6000' water cushion
Packer in liner @ 11,127
3/4" bottom hole choke
Op 9 min. Op w/weak blow. Inc to strong blow in 3.5 min.
SI 111 min.
Op 96 min. Op w/fair blow. Inc to strong blow in 3 min.
WCTS in 91 min. No GTS.
SI 287 min.
Reversed Out: 72 bbls very gassy oil
Chamber: 3000 psig
900 cc oil
39.8° API @ 60°F
Pressures: Recorder @ 11,153 - IHP 7979, IFP 2992, ISIP 7459, FFP 4058, FSIP 7302, FHP 7905
Max Temp = 230°F
JAN 2 1 1971
Mud: 13.2 x 67 x 5.9 (sal 700) (oil 3%) (P.V. 36) (Y.P. 13)

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" csg liner at
11,155'

11,271/112/143/59. Cutting Core No. 14.
Mud: 13.3 x 63 x 6.1 (sal 700) (Oil 2%) (P.V. 39) (Y.P. 12)
JAN 2 2 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

11,452/112/146/181. Drilling.
Core No. 14 11,212-11,272. Cut and rec'd 60'.

11,212-15	Sh, blk, coaly, w/twigs and wood frags.
11,215-20	Sh, blk, calc, sli coaly.
11,220-21	Ls, blk, calc, very arg., ostracods calcite lined vert frac, no fluor or cut on fracture.
11,221-27	Sh, blk, very calc, abundant ostracods
11,227-28	Ls, gry to blk, very finely crystalline, trc fluor.
11,228-30	Sh, blk, sli calc.
11,230-31	Ls, shaley, w/abund ostracods.
11,231-45	Sh, blk, very calc, micaceous, fossiliferous.
11,245-50	Ls, very finely crystalline, sli shaley becoming more shaley at base.
11,250-52	Sh, blk, calc, pyritic.
11,252-53	Ls, dense, gry.
11,253-54	Sh, blk, fossiliferous, and Ls a.a.
11,254-57	Sh, clac, pyritic, becoming more fossiliferous.
11,257-58	Ls, dk gry, dense.
11,258-59	Sh, blk, very calc.
11,259-62	Ls, gry, very finely crystalline to dense.
11,262-63	Sh, blk, very calc.
11,263-68	Ls, gry, fine to very finely crystalline, siliceous, calcite filled fractures w/very faint cut fluor.
11,268-70	Sh, dk gry, very calc
11,270-72	Ls. gry, finely crystalline, siliceous.

JAN 2 5 1971
Mud: 13.4 x 61 x 5.4 (sal 850) (Oil 1%) (P.V. 39) (Y.P. 11).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

11,520/112/147/68. Drilling.
Mud: 13.4 x 60 x 5.8 (sal 850) (Oil 1%) (P.V. 37) (Y.P. 11).
JAN 2 6 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

11,554/112/148/34. Cutting Core No. 15.
Drld to 11,542 - pulled for core.
Bit #54 Christensen diamond out at 11,542 - drilled 271' in 92½ hrs. Footage/hr - 2.9'.
JAN 2 7 1971
Mud: 13.8 x 66 x 4.8 (sal 800) (Oil 2%) (P.V. 40) (Y.P. 15).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

11,580/112/149/26. Running DST No. 9.
JAN 2 8 1971
Core No. 15 11,542-11,580. Cut and rec'd 38'. Details later.
Mud: 14 x 60 x 4.6 (sal 900) (Oil 1%) (P.V. 35) (Y.P. 10).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155

11,580/112/150/0. Circ and cond hole for core.
Core No. 15 11,542-11,580. Cut 38'. Rec'd 37'.

11,542-11,542.5	Silt, dk gry, calc, N.S.
11,542.5-11,544.5	Sh, silty, blk, calc, pyrite inclusions
11,544.5-11,547	Sh, dk gry, calc, mica ostracods
11,547-11,563	Sh, blk, calc, wood and plant frags
11,563-11,567	Sh, gry, calc, fossils
11,567-11,579	Sh, blk, calc, fossils
11,579-11,580	No recovery

Note: Coaly strks through most of core.
DST No. 9 11,155-11,222. Details later.
JAN 2 9 1971
Ran mill tooth drlg bit to cond hole for core.
Mud: 13.8 x 70 x 4.8 (sal 1,000) (P.V. 41) (Y.P. 14) (Oil 2%).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155

11,676/112/153/96. Coring on Core #19.
DST No. 9 - 11,155-11,222, (Johnston straddle)
Pit mud: Rm = 1.8 at 64°F. 15/16" BH chk. 6,000 WC.
Op 25 min. Op w/weak blow, inc to strong (12" H_2O) in 10 min. SI 180 min.
Op 120 min. Op w/weak blow, strong blow in 1 min. GTS in 75 min TSTM. SI 360 min.
Recovery: 15.5 bbls oil (39.7° API at 60°F)
66 bbls wtr cushion.
FEB 1 1971
Sample Chamber: 1425 psig
1050 cc's oil (39.7° API at 60°F.)
Press's: Recorder at 11,216!
IHP 8372, IFP 2923, ISIP 7383, FFP 3253, FSIP 7417, FHP 8344.
Max temp - 197°F.

(Cont'd)

(Cont'd)

Cut Cores #16, 17, & 18.

Core No. 16 11,580-602, Cut 22' rec'd 19'

11,580-85	Sh, blk, calc, pyritic wood and plant frags, bleeding gas slightly
11,585-87	Sh, a. a., w/2" & 4" calcite lined near vertical fractures
11,587-92	Sh, a. a., bcmg dk gry, very calc, hard
11,592-93	Sh, dk gry, calc hard
11,593-94	Sh, a. a., w/3" calcite lined near vertical fracture
11,594-99	Sh, a. a.
11,599-602	No recovery

Core No. 17 11,602-624, Cut and rec'd 22'

11,602-17	Sh, dk gry, calc, wood and plant frags, hard
11,617-18	Sh, a.a., w/calcite lined vert. fracture
11,618-24	Sh, a.a., bcmg gry

Core No. 18 11,624-11,653, Cut and rec'd 29'

11,624-31	Sh, dk gry, sli silty, calc, scattered pyritic fossils
11,631-32	Sh, a.a., w/calcite lined near vertical fracture
11,632-41	Sh, a.a.
11,641-43	Sh, blk, calc
11,643-44	Sltst, shaley, gray, calc
11,644-49	Sh, dk gry, w/interb sh, gry to lt gry, calc
11,649-52	Sltst, gry, calc, calcite lined vert fractures throughout, dense, tite
11,652-53	Sh, gry to dk gry, calc

FEB 1 1971

Note: No oil shows in any of the above cores.

Mud: 14 x 57 x 6.2 (sal 1100) (Oil 1%) (P.V. 35) (Y.P. 14)

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

11,717/112/154/41. Pulling Core #20.

Core #19 11,653-11,708 - Cut 55' Rec'd 49'

11,653-65	Sh, blk, calc, scattered pyrite, thin horiz layers of gilsonite
11,665-68	Sh, lt gry, very calc, scattered calcite filled hairline fractures
11,668-70	Sh, gry, scattered mica
11,670-76	Sh, dk gry, calc
11,676-78	Sltst, gry, calc
11,678-87	Sh, gry to dk gry, calc
11,687-89	Sltst, gry, calc
11,689-702	Sh, dk gry to blk, calc
11,702-08	No recovery

FEB 2 1971

Note: No shows & no visible open natural fracs.

Core No. 20 11,708-11,718. Cut 10'. (Details later).

Mud: 14 x 48 x 6.4 (sal 900) (Oil 1%) (P.V. 26) (Y.P. 9).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

11,753/112/155/36. Drilling.
Core No. 20 - 11,708-11,718. Cut and rec'd 10'.

11,708-11,710	Silt, gry to dk gry, shaley, very calc
11,710-11,715	Ls, very finely crystalline to dense, shaley, dk gry, calc, 3" calcite lined nearly vert fracture, grades to very calc gry shale
11,715-11,717	Ls, silty, grades to very calc shale
11,717-11,718	Sh, blk, calc

FEB 3 1971
Relined brakes on drawworks 3¼ hrs.
Mud: 14 x 54 x 6.3 (sal 1100) (Oil 2%) (P.V. 32) (Y.P. 11).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

No report. FEB 4 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

11,856/112/157/103. (2 days drlg rept). Running in w/core bbl. Gas kick while drlg at 11,856. Cut mud weight to 13.2. Pulled out for core bbl. FEB 5 1971
Mud: 14 x 56 x 5.4 (Oil 1%).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

11,989/112/160/133. Running DST #9 11,814-11,989.
Core No. 21 11,856-11,916 - cut and rec'd 60'.

11,856-57.5	Sltst, shaley, gry, sli calc
11,857.5-59.5	Sltst, a.a., w/thin lams, finely crystalline ls
11,859.5-63	Sh, gry, very calc, silty
11,863-67	Sh, blk, very calc, pyritic
11,867-69	Sh, a.a., w/1' calcite lined frac
11,869-79	Sh, a.a.
11,879-80	Sh, a.a., w/1' calcite lined frac
11,880-97	Sh, a.a.
11,897-99	Sh, gry, very calc, hard.
11,899-900.5	Ss, fg, S&P, lt gry, calcite filled, no vis por, calcite lined vert frac
11,900.5-10	Sh, dk gry to blk, calc, sli silty
11,910-12	Sltst, shaley, dk gry, very calc, w/thin ss layers, hard, calcite filled
11,912-16	Sh, dk gry to blk, calc

Note: No shows in sltst or ss.
Strapped out of hole w/core bbl. Drld to 11,989, circ & cond mud for DST. FEB 8 1971
Mud: 14.7 x 70 x 5.4 (Oil 1%).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

11,989/112/161/0. Reaming to bottom.
DST No. 10 11,814-11,989 (Johnston)
8800' WC (101 bbls) (42 bbls to fill)
Op 20 min — Op w/weak, increase to strong in 3 min. Remained constant.
SI 120 min
Op 120 min — Op w/weak, increase to strong in 5 min. Nearly dead after 45 min (2" H_2O). Con't 2" blow throughout.
SI 240 min
Recovery: 1 bbl oil (Lt grn to white)
2 bbls mud
Sample Chamber: 2250 psig
6.1 CF gas
50 cc's oil
1200 cc's mud (Rm = 10.0 @ 63°F.)
Pressures: Recorder @ 11,834
IHP 8990, IFP 4047-4131, ISIP 8288, FFP 4131-4159, FSIP 8625, FHP 8990.
Max temp 204°F.
Finished SI on DST #10 at 11:07 p.m. Pulled pkr loose. Dropped bar and reversed out contents of DP. After equalizing, unable to clear pipe of GCM w/500 psi on csg. Picked up Kelly and circ out remainder of GCM. Tripped out w/test tools & picked up drlg assembly. FEB 9 1971
Mud gradient: .755
Mud: 14.5 x 75 x 5.8 (Oil 1%) (LCM trc)

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

12,046/112/162/57. Drilling.
Mud gradient - .765 FEB 10 1971
Mud: 14.7 x 68 x 6.8 (Oil 1%).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

12,085/112/163/39. Coring.
Made SLM correction 11,989=11,995 (6' correction)
(DST #10 interval should be corrected to 11,820-11,995).
Pulled for Core #22 at 12,085. FEB 11 1971
Mud: 15.1 x 54 x 5.8

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

12,133/112/164/48. Coring on Core #23.
Core No. 22 12,085-12,113 Cut and rec'd 28'.
12,085-90 — Sh, gry, calc, hd, tite, trc scattered lt grn fluor
12,090-94 — Sh, dk gry, calc, a.a., ostracods
12,094-113 — Sh, blk to gry, a.a., ostracods, sli pyritic, fossiliferous.
Note: Last foot fractured. May have been natural fractures.
Lost 200 bbls mud past 24 hrs. FEB 12 1971
Mud: 15 x 58 x 5.8.

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" liner at 11,155'

12,194/112/167/61. Drilling.

Core No. 23 12,113-12,140. Cut 27'. Rec 23'.

12,113-12,121	Sh, dk gry to blk, very calc, calcite healed fractures in top ½ foot, fossiliferous
12,121-12,123	Sltst, gry, grades to ss, vf g, gry, sli calc
12,123-12,126	Ss, vf g, gry, sli calc, very sli micaceous, pyritic, well sorted
12,126-12,130	Ss, a.a., very calc
12,130-12,132	Sh, sli calc, dk gry, soft
12,132-12,134	Sh, sli calc, med to dk gry
12,134-12,135	Ss, a.a.
12,135-12,136	Sh, dk gry to blk, sli calc, fossiliferous
12,136-12,140	No recovery

Note: No shows in core.

DST No. 11 12,002-12,140

Johnston on bottom test
15/16" Bottom Hole Choke
10,400' WC

Op 20 min. Op w/moderate blow. Inc to strong blow in 1 min. Remained strong.

SI 120 min.

Op 90 min. Op w/strong blow. Dec to weak in 7 min. Inc to strong in 32 min. Dec to moderate and continued moderate. No GTS.

SI 300 min.

Rec. 1 bbl oil
0.5 bbl mud

Sample Chamber: 2300 psig
800 cc's oil (37.6° API @ 60°F)
4.2 cu ft gas
Calculated GOR = 830

Pressures: Recorder @ 11,979 (Inside)
IHP 9614, IFP 4751-4751, ISIP 8935, FFP 4751-4779, FSIP 8935, FHP 9585.

Max. Temp. - 214°F

Changed drlg line and ran bit to 12,140. Reamed and CO to 12,070. Circ and cond mud at 12,140. Pulled and ran core bbl.

Core No. 24 12,140-12,180. Cut 40'. Rec'd 38'.

12,140-12,146	Sh, dk gry to blk, very calc, brittle, hard
12,146-12,154	Sh, blk, carb, sli calc, (46-47 small fracture)
12,154-12,160	Ss, vf g, very calc, tite, med gry, calcite lined frac (57-59) 15° from vert.
12,160-12,175	Sh, med to dk gry, calc, brittle, dense
12,175-12,176	Ss, vf g, calc
12,176-12,178	Sh, med gry to dk gry, calc
12,178-12,180	No recovery

Note: Bright yellow cut fluor on frac faces. No shows in SS matrix.

Mud: 15.3 x 64 x 6.6 FEB 16 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

12,223/112/168/29. Circ at shoe of liner; repairing engine. Unable to drill w/two engines. Pulled into liner; inj seals leaking in #2 engine. FEB 17 1971
Mud: 15.3 x 65 x 6.2 (Oil 1%).

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

12,266/112/169/43. Drilling
13 3/4 hrs time lost repairing engine.
Mud: 15.1 x 52 x 4.8. FEB 18 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155

12,350/112/170/84. Drilling. FEB 19 1971
Mud: 15.1 x 57 x 5 (Oil trc)

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

12,530/112/173/180. Drilling.
Pulled bit to pick up additional 3½" DP. Magnafluxed DC's, no defects. Picked up 15 jts additional 3½" DP.
(No mud details). FEB 22 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner @ 11,155'

12,587/112/174/57 Drilling.
Lost 40 bbls mud from 12,579-12,581.
Mud: 15 x 57 x 6. FEB 23 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155

12,658/112/175/71. Drilling. FEB 24 1971
Mud: 15.1 x 57 x 6.

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" liner at 11,155'

12,721/112/176/63 Drilling.
Mud: 15 x 56 x 5.8 FEB 25 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

12,775/112/177/54. Drilling.
Mud: 15.1 x 62 x 5.1 FEB 26 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155

12,945/112/180/170. Drilling.
Mud: 14.9 x 68 x 5.4 MAR 1 1971

Murdock No. 1
(WC) Brinkerhoff
13,000 Wasatch Test
7 5/8" Liner at 11,155'

12,961/112/181/16. Drilling.
Washed and reamed from 12,897-12,957.
Mud: 15.1 x 75 x 5 MAR 2 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

12,982/112/182/21. Drilling.
Mud: 15 x 62 x 5.2 (LCM 6%) (Oil 2%). MAR 3 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

13,045/112/183/63. Drilling.
Mud: 15 x 59 x 5.5 (LCM 5%) (Oil 1%) MAR 4 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

13,124/112/184/79. Drilling.
Mud: 14 x 61 x 5.9 (LCM 6%) (Oil 1%) MAR 5 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" liner at 11,155'

13,348/112/187/224. Drilling. Lost 350 bbls mud last 24 hrs.
Mud: 14.6 x 58 x 5.5 (LCM 12%) (Oil 1%) MAR 8 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" liner at 11,155'

13,404/112/188/56. Drilling.
Lost 200 bbls mud first 24 hrs.
Mud: 15 x 60 x 6 (LCM 13%) (Oil 1%) MAR 9 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" liner at 11,155'

13,431/112/189/27. Drilling.
Circ at shoe of liner on trip 1½ hrs.
Mud: 14.8 x 55 x 6.5 (LCM 10%) (Oil Trc) MAR 10 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" liner at 11,155'

No report. MAR 11 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" liner at 11,155'

13,442/112/191/11 (2 days report) Mixing mud for volume.
Mixed mud. Staged DP in hole, circ and cond mud at 13,439.
Drld to 13,442. Made run to shoe of liner. Ran back to
13,442. Lost circ and pulled bit into shoe of liner. Lost
350 bbls mud past 24 hrs.
Mud: 15 x 82 x 59 (LCM 17%) (Oil Trc) MAR 12 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner @ 11,155'

13,442/112/194/0. Circ and cond mud.
Ran logs as follows: FDC/GR/Cal, SNP/GR/Cal, Int BHCS/GR/Cal,
DIL/SP, Dipmeter (4 arm), PL/ML/Cal.
Mud: 14.7 x 96 x 5.6 (LCM 18%) (Oil trc). MAR 15 1971

Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test 7 5/8" Liner at 11,155'	13,442/112/195/0. Prep to reverse out DST. Had apparent pkr failure after 10 min. MAR 1 6 1971
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test 7 5/8" liner at 11,155'	13,442/112/196/0. Circ and cond mud for DST No. 13. Reversed out wtr cushion of previous DST; found pkrs to be ok. Mud: 14.8 x 66 x 6.5. MAR 1 7 1971
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test 7 5/8" Liner at 11,155'	13,442/112/197/0. Running DST #13. Lost 250 bbls mud past 24 hrs while circ for DST. Mud: 14.8 x 62 x 6.6 (LCM 16%) (Oil trc). MAR 1 8 1971
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test 7 5/8" Liner at 11,155'	13,442/112/198/0. Circ at top of 7 5/8" Liner at 8728. DST #13 13,251-13,442 - Details later Pulled DST #13; reversed out water cushion. Ran bit and hit 7 5/8" liner hanger w/bit. MAR 1 9 1971
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test 7 5/8" Liner at 11,155'	13,488/112/201/46. Drilling. DST #13 (Johnston) 13,251-13,442 (1) 10,000' WC (2) 5/8" BH choke Op 20 min. Op'd w/fair blow, continued throughout. No GTS. SI 120 min. Op 60 min. Op'd w/fair blow (12" H_2O) continued throughout. No GTS. SI 7 hrs. Recovery: 10,000' WC. Approx 40 bbls drlg mud (N.S.) (Could not press annulus while reversing). Sample chamber contained trc of mud, filtrate recovered, N.S. Could not completely purge chamber w/100 psi. Additional contents will be determined later. Recorder at 13,274. Press: IHP 10,490, IFP 6155-7386, ISIP 9707, FFP 7050-7106, FSIP 9902, FHP 10,210. Max Temp. - 248°F. Pulled out to check bit and DP, ok. Ran new bit and staged into 13,282. Lost all returns - 375 bbls mud. Pulled to shoe of 7 5/8" liner. Regained circ. Staged into 13,442 and drld to 13,449. Reamed and CO from 13,429-13,449. MAR 2 2 1971 Mud: 15 x 60 x 9.2 (LCM 24%).
Murdock No. 1 (WC) BRinkerhoff 13,000' Wasatch Test 7 5/8" Liner at 11,155'	13,552/112/202/64. Mixing volume at shoe of 7 5/8" liner. Lost 300 bbls mud at 13,552. Pulled to shoe of 7 5/8" liner at 11,155. Mud: 14.9 x 61 x 8 (LCM 20%). MAR 2 3 1971

Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test 7 5/8" liner at 11,155'	13,580/112/203/28. Drilling. Staged DP in hole to 13,552 from shoe of 7 5/8" csg. Washed and reamed from 13,522-13,552. Lost 500 bbls mud past 24 hrs. MAR 2 4 1971 Mud: 14.8 x 52 x 8 (LCM 15%)
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test 7 5/8" Liner at 11,155'	13,640/112/204/60. Prep to wipe hole. Pulled 6 stds to wipe hole at 13,594, no problems. Lost 250 bbls mud past 24 hrs. MAR 2 5 1971 Mud: 14.9 x 57 x 7.4 (LCM 18%).
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test 7 5/8" liner at 11,155'	13,648/112/205/8. Circ at shoe of 7 5/8" liner at 11,155. Drld to 13,648. Pulled out and ran (1) Int BHCS/GR/Cal, (2) attempted to calibrate PL/ML on surface. Could not calibrate. Did not run log. Ran milled tooth bit to shoe of 7 5/8" liner. MAR 2 6 1971
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test 7 5/8" Liner at 11,155'	13,759/112/208/111. Drilling. Set RTTS tool (Hal) at 11,105. Press tested csg to 1800 psi in 5 min, ok. Wiped hole w/short trip at 13,715. Circ ok. Mud: 14.8 x 60 x 6.8 (LCM 16%). MAR 2 9 1971
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test 7 5/8" Liner at 11,155'	13,828/112/209/69. Drilling. Made two wiping runs past 24 hrs -- no mud loss. Mud: 14.8 x 55 x 6.4 (LCM 21%). MAR 3 0 1971
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test 7 5/8" Liner at 11,155'	13,850/112/210/22. Circ at 12,700. Staged DP in hole and drld to 13,850. Cond mud for logging and ran Schl Int BHCS/GR/Cal. Ran mill tooth bit to shoe of 7 5/8" liner. Circ'd and staged DP to 12,700. Mud: 14.8 x 56 x 6.2 (LCM 21%). MAR 3 1 1971
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test 7 5/8" Liner at 11,155'	13,860/112/211/10. Coring on Core #25. Staged to btm at 13,850. Circ'd and cond mud for core. Pulled out and picked up 30' section of core bbl. Staged core bbl to btm. APR 1 1971 Mud: 14.8 x 56 x 6.2 (LCM 21%)
Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test 7 5/8" Liner at 11,155'	13,880/112/212/20. Logging. Core No. 25 13,850-13,880 Cut 30'. Rec'd 28'. Details later. Mud: 15 x 55 x 5.2 (LCM 23%). APR 2 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

13,880/112/215/0. Circ openended at 11,500'; prep to plug back.

Core #25 13,850-13,880. Cut 30' rec 28'.

13,850-51	Sltst, brn to red brn, very arg, very calc, no show.
13,851-52	Sh, gry-brn, carb, very calc
13,852-53	Sh, red-brn, silty, very calc
13,853-54	Sh, gry, silty, very hard, very calc
13,854-55	Sh, gry, mottled w/red-brn, trace carb wood frags, very calc
13,855-58	Sh, gry, fossiliferous (ostracods).
13,858-61	Sh, gry-brn, mottled, carb wood frags, very calc
13,861-62	Sh, gry, w/blk ostracods, sli calc
13,862-65	Sltst, gry-brn, very arg, very calc.
13,865-67	Sh, silty, gry-brn, very calc
13,867-68	Sltst, brn, arg, very calc, no show
13,868-71	Sh, gry, very hard, carb, ¼" coal seam
13,871-78	Sh, gry-brn, mottled, silty fossil frags, very calc
13,878-80	No recovery

Ran Int BHCS/GR/Cal; DIL/SP.
Ran DST #14 - 13,676-13,880. Strapped in hole to 11,500 to plug back.

DST #14 13,676-13,880(Johnston)
Op 15 min. Op w/v weak blow. Inc to fair. Lost 1-2 bbls mud from annulus very slowly.
SI 120 min. Op 33 min. No blow, tool appeared to be plugged or not open. SI 15 min. Op 60 min. No blow. SI 300 min.
Recovery: 104 bbls slightly mud cut water cushion. No shows.
Sample Chamber: 1500 cc drilling mud (no shows)
Rm = 1.0 @ 64°F.
Pressures: Recorder @ 13,664(Tool not plugged during flow period)
IHP 10,713, IFP 4589, ISIP 8617 (increasing), FFP 5400, FSIP 8534 (increasing), FHP 10,657.
Max temp 248°F.
Mud: 14.9 x 65 x 6.8 (LCM 23%).

APR 5 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

TD 13,880. PB 11,297/112/216/0. Pulling out.
Hung DP openended at 11,500. Mixed and equalized 105 cu ft Class "G" cmt w/18% salt, 1% CFR-2, and .5% HR-4. 20 bbls ahead, 5 bbls wtr behind. Pulled out and ran mill tooth bit. Located cmt at 11,293. Drld firm cmt to 11,297.
Mud: 14.9 x 69. APR 6 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" liner at 11,155'

TD 13,880. PB 11,269/112/217/0. Pulling out.
Hung DP openended at 11,297. Mixed and equlaized 60 cu ft Class "G" cmt w/18% salt, 1% CFR-2, and .5% HR-4. 20 bbls ahead, 4.5 bbls wtr behind. Pulled out and ran mill tooth bit. Located cmt at 11,261. Drld firm cmt at 11,269.
No mud details. APR 7 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

TD 13,880. PB 11,269/112/218/0. Pulling out w/openended DP. Hung DP openended at 11,269. Mixed & equalized 100 sx Class "G" cmt w/18% salt, 1% CFR-2, .5% HR-4. 20 bbls water ahead, 4.5 bbls water behind. 15.8# slurry. Cmt in place 3:45 a.m. 4/8/71. APR 8 1971
Mud: 14 x 41.

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

TD 13,880. PB 11,200/112/222/0. Laying down drill pipe. Located top of cmt plug #3 at 10,054. Hard from 10,069-11,200. Ran GR depth control log (OWP). Stopped at 11,164. Made CO run w/bit and reran log. Ran Servco 9" underreamer - opened up 6½" hole to 9" from 11,155-11,200. Circ'd hole clean. Pulled underreamer. Ran 2 jts perf 5½" 16.8# N-80 flush jt liner w/4 ½" holes/ft and set at 11,200' w/Brown Oil Tool guide shoe and standard setting sleeve at 11,113. Laid down 3½" DP and 4 3/4" OD DCs. APR 12 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

TD 13,880. PB 11,200/112/223/0. Running 5½" csg for heat string. Laid down 4½" DP. Broke down Kelley. Attempted to pull wear bushing from head but found none. RU OWP & set Bkr Model "D" pkr w/flapper valve on WL @ 11,090 w/7 5/8 FC as depth control mkr. Pulled BOP stack to check 10" head spool. Found spool & top of 9 5/8 csg grooved. Remounted BOP stack & installed 5½ rams. APR 13 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

TD 13,880. PB 11,200/112/224/0. Running 2 7/8" prod string. Ran total of 141 jts 5½" 14# K-55 Rg 2 belled openended csg at 4460'. Installed backpress valve in 5½" doughnut. Landed 5½". Removed BOP stack. Installed seal locking flange (5,000 psi). Packed off and tested to 5,000 psi. Installed 10" x 6" 5,000 psi tbg hanger spool. Installed BOP stack less hydril. Removed 5½" backpress valve and checked BOP's prior to picking up equip. Pulled 5½" pipe rams. Installed 2 7/8" rams. Nippled up lines and picked up Bkr prod tube, dbl seal assembly, Bkr Model "FL" on-off seal connector w/2.250" FSG blanking plug in place, 1 jt 2 7/8" tbg, Bkr Model "L" 2.310" sliding sleeve in closed position. Started in hole w/tbg. APR 14 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner at 11,155'

TD 13,880. PB 11,200/112/225/0. Prep to pull BOP stack. Ran btm hole equip as reported on total of 353 jts 2 7/8" tbg. Stung into Model "D" pkr at 11,090. Pulled to 90,000#. Set 20,000# on pkr. Unable to release on-and-off tool. Released latch in seal assembly w/14 turns right hand torque. Relatched into pkr. Attempted to release on-and-off tool w/4 rounds left hand torque. Lost 10,000# tbg wt. Back washed approx 46 bbls wtr from tbg w/mud through chk. Over balanced csg to tbg differential prior to displacing = 2250#. Pulled 238 jts (7414') of tbg leaving 115 jts of 2 7/8" tbg and btm hole equip fish in hole w/collar looking up. Fish latched into Model "D" pkr at 11,090. Ordered left hand release grapples for fishing tools. Will have to pull 5½" heat string to run 7" overshot to avoid possibility of overrunning 2 7/8" fish in 9 5/8" csg.
APR 1 5 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner @ 11,155'

TD 13,880. PB 11,200/112/226/0. Circ through tbg to cond mud @ top of fish. Pulled BOP stack. Removed 10" - 5,000# x 6" - 5,000# tbg spool. Rec installed BOP stack. Installed 5½" rams on BOP's. Pulled & laid down 5½" heat string. Picked up Bowen 5 3/4 overshot w/7½" OD skirt dressed w/3 21/32 L.H. release basket grapple w/control stop. Ran in on 119 stds 2 7/8" tbg to 7383. Installed kill valve on tbg. Circ to balance mud.
APR 1 6 1971

Murdock No. 1
(WC) Brinkerhoff
13,000' Wasatch Test
7 5/8" Liner @ 11,155'

TD 13,880. PB 11,200/112/229/0. Rigging down Howco.
On 4/16/71, landed 5½" heat string. Cond mud to 13.6#. Ran 1 jt tbg. Worked over fish. Unlatched seal assembly from Model "D". Pulled and rec'd entire fish (tbg had backed out of collar). Installed 5½" rams in BOP. Ran belled open heat string of 141 jts 5½" 8rd K-55 14# R_2 SS ST&C csg at 4460'.
On 4/17/71, installed 2 7/8" pipe rams. Tested 10" 5,000# seal flange to 5,000 psi ok. Picked up Bkr 5' prod tube. Latched in dbl seal assembly. Bkr on-off seal connector w/2.250 FSG blanking plug in place, 1 jt 2 7/8" tbg, Bkr sliding sleeve in closed position and 3 jts 2 7/8" tbg. Checked each jt for makeup torque. Filled tbg w/mud every 5 stds. Latched into Model "D". Tested pkr w/20,000# set-down weight. Marked tbg for spacing out w/16,000# set-down wt. Un-jay Model "FL" on-off seal connector. Spaced out w/tbg sub. Set tbg on donut w/8000# set-down wt. MI&RU Hal to displace drlg mud w/fresh wtr.
On 4/18/71, mixed 20 bbls gel plug. Displaced mud from hole. Flush wtr heated to 165°. Used approx 2,000 gals wtr. Circ 5½" & 9 5/8" annulus - wtr still muddy. Switched to reverse circ - 150 bbls down 5½" annulus - 50 bbls down 9 5/8" annulus, returns clean. Circ 700 bbls inhibited wtr. Returns at end of circ very clean. Installed tbg hanger. Tested on-off tool. Press'd csg to 1,000 psi. Tested tbg & tree to 7,000 psi, held ok for 10 min. Bled tbg to 1,000 psi. Tested 9 5/8" csg and 7 5/8" liner & top of pkr to 3500 psi, held ok for 10 min. Bled press off csg and tbg. APR 1 9 1971

Murdock No. 1 (WC) Brinkerhoff 13,000' Wasatch Test 7 5/8" Liner @ 11,155'	TD 13,880. PB 11,200/112/230/0. Pulling SSG plug hull. RU Marshall WL Service to ret SSG equalizing blanking plug from Bkr tbg on and off seal assembly at 11,089. Pulled equalizing stem - no press increase. APR 2 0 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" liner at 11,155'	TD 13,880. PB 11,200. Moving out rotary rig. Jarred on FSG plug total of 3½ hrs. 3 runs - sheared release pin on fishing tool twice while jarring - sheared off third time, after jarring 1 hr and 25 min. Unable to pull plug from receptacle nipple. Released rig this AM. (Report discontinued until completion rig moved in) APR 2 1 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,200. MORT. Set Cameron back press valve in donut. Released rig 5 a.m. 4/21/71. (Report disc until completion rig moved in). APR 2 2 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" liner at 11,155'	TD 13,880. PBTD 11,200. Attempting to release and drive plug out bottom of prod.tools. (RRD 4/22/71) On 4/25/71, MI R&R rig to location. Dug and cemented dead man anchors. Cleaned up location. On 4/26/71, MI&RU R&R Service Rig. RU hot oil service. Csg annulus press 0, tbg press 0. RU Marshall WL service. Press'd tbg to 500 psi. Ran pulling tool. Press'd tbg from 0 to 2300 psi while jarring on plug sole. Sheared pulling tools. Laid down WL tools. Ran swab and swabbed approx 974 water load. Laid down swab and picked up WL tools. Found FL at 730'. Engaged plugs. Sheared off, reran. FL at 280'. Could not jar loose. Sheared release after 3½ hrs of jarring. Laid down tools. Closed well in overnight. 10 hrs SI press = 1150 psi TP, CP 0. APR 2 7 1971
Murdock No. 1 (WC) R&R Service 13,000' Wasatch Test 7 5/8" liner at 11,155'	TD 13,880. PBTD 11,200. Flowing well down making oil spray and water. 16/64" chk. FTP 1000 psi. RU WL lubricator. Ran B prong on A driving tool. Engaged plug. Press'd tbg to 3000 psi; could not drive plug down. Press'd to 3500 psi; could not drive plug loose. Lowered press to 2500, could not drive loose. Lowered press to 2000 and drove plug out of nipple. Chased plug out of end of prod tube. Pulled WL tools. Press on tbg stabilized at 1900 psi. RD Marshall WL service. Opened well to pit through 16/64" chk, died in 15 mins. RU and swabbed to pit. Starting swabbing at 12 noon. Swabbed approx 40 bbls mud and water w/show gas in 6½ hrs. Swabbed from 4000'. Circ hot water through heat string. 12-hr tbg shut-in buildup press 3800 psi. Csg press 0. APR 2 8 1971 Note: Bkr SSG plug minus equalizing prong knocked out of receptical into liner below tbg prod tube.

Murdock No. 1 (WC) R&R Service 13,000' Wasatch Test 7 5/8" liner at 11,155'	TD 13,800. PBTD 11,200. Flowing to battery. SITP 3800 psi. Opened to pit. Dropped to 1000 psi on 16/64" chk in 10 mins. Flowed to pit on 16/64" chk. At 10:30 a.m., increased to 18/64" chk w/800 psi FTP flowing at 5 BO and 1 bbl muddy water/hr to pit. SI to hook to battery at 2 p.m. Turned to battery 4 p.m. 2 hrs SI buildup press to 4000 psi. Opened well on 18/64" chk. Flowed to battery 15 hrs and increased chk from 18/64" to 20/64" w/FTP fluctuating from 1000 to 500 psi. At 7 a.m. 4/29/71, well flowing on 20/64" chk at 500 psi FTP. Avg for 15 hrs-flowing 13 BO and 0 BW/H with estimated 600,000 CF gas per day. APR 2 9 1971
Murdock No. 1 (WC) R&R Service 13,000' Wasatch Test 7 5/8" liner at 11,155'	TD 13,880. PBTD 11,200. Flowing to battery. From 7 a.m. to 11 a.m., flowed 63.4 BO to battery on 20/64" chk at 700 psi FTP. SI to work on treater. Reopened treater at 1 p.m. 4/29/71. From 1 p.m. to 4 p.m., flowed 59.4 BO on 18/64" chk at 500 psi FTP. Flowed total of 379 BO in 21 hrs on various chokes up to 20/64" w/FTP varying from 450-1800 psi. Choke plugging occasionally. Worked on treater from 11 a.m. to 1 p.m. Blew rupture disc at 1:45 p.m., down 1 hr. 21-hr avg = 18 BO/H. From 6-7 a.m. 4/30/71, flowed 25 BO and no wtr on 19/64" chk with 500 psi FTP. Total oil produced in 36 hrs = 579 bbls. Oil Gv. - 46.5° at 60°F. No BS&W observed. APR 3 0 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" liner at 11,155'	TD 13,880. PB 11,200. Flowing to battery. On 4/30/71 down 1 hr to rig down unit; down 4 hrs working on treater. Flowed 376.4 bbls oil in 19 hrs on 14/64"-19/64" chk w/tbg press varying from 200-850 psi. 19 hr avg prod - 19.8 bbls oil/hr w/GOR of 549 to 1. Total oil produced in 55 hrs - 955 bbls. Rig released 12:30 p.m. 4/30/71. On 5/1/71, flowed 427.8 BO in 24 hrs. No down time. Avg flowing 17.8 BO/H with GOR of 587 to 1 on 19/64" chk w/FTP of 200#. 79 hrs total prod 1,383 bbls. On 5/2/71, flowed 418.5 bbls oil in 24 hrs. No down time. Avg flowing 17.4 BO/H with GOR of 533 to 1 on 16/64" chk w/FTP of 300 psi. TP declined from 200 psi to 50 psi on 19/64" chk. Pinched chk in to raise FTP. Csg press 0. (Total of 103 hrs - 1,801 bbls produced.) MAY 3 1971 Note: Addition of 213 MCF w/rate of 18 BO/H on 4/30/71.
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" liner at 11,155'	TD 13,880. PB 11,200. Flowing to btry. Flowed 410.6 BO, no wtr, and 175,197 CF gas at avg of 17.1 BO/hr (GOR 426). Total production in 127 hrs - 2211 bbls. Repairing gas meter. MAY 4 1971

Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" liner at 11,155'	TD 13,880. PB 11,200. Flowing. On 24-hr test, flowed 388 BO, no wtr, and 165,000 CFG (GOR 426) on 17/64" chk at 250 psi FTP. Avg rate - 16.1+ BO/H. MAY 5 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" liner at 11,155'	TD 13,880. PB 11,200. Telephone lines out; no report. MAY 6 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,200. Flowing. On 24-hr test 5/5/71, well flowed 384 BO, no wtr, and 146,000 CF (GOR 380) on 17/64" chk at 250# FTP. Oil Gv. 45° @ 60° API. On 24-hr test 5/6/71, well flowed 358 BO, trc wtr, and 133,713 CF (GOR 374) on 16/54" chk at 250# FTP, CP 0. Total produced in 199 hrs - 3351 bbls. MAY 7 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,200. Flowing to btry. On 24-hr test 5/7/71, flowed 354 BO, no wtr, and 148,729 CF gas (GOR 417) on 16/64" chk, 200 FTP, 0 CP. Avg rate - 14.7 BO/H. On 24-hr test 5/8/71, flowed 350.4 BO, .1 BW, and 143,912 CF gas (GOR 411) on 16/64" chk, 200 FTP, CP 0. Avg rate - 14.6 BO/H. On 24-hr test 5/9/71, flowed 341.3 BO, .1 BW, and 142,488 CF gas (GOR 418) on 16/64" chk, 200 FTP, CP 0. Avg rate - 14.2 BO/H. Total oil produced in 271 hrs - 4,385 bbls. MAY 10 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,200. Flowing to btry. MAY 11 1971 On 24-hr test 5/10/71, well flowed 326 BO, .1 BW, and 120,935 CF gas (GOR 371) on 15/64" chk w/200# FTP, CP 0. Avg rate - 13.6 BO/H. Total produced in 295 hrs - 4,711 BO.
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,200. Flowing to btry. Flowed 307.3 BO, .2 BW, and approximately 120,000 CF gas (GOR 391) on 15/64" chk w/FTP of 175, CP 0. Avg 12.6 BO/H. Total prod in 319 hrs 5,018 bbls. MAY 12 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8 Liner at 11,155'	TD 13,880. PB 11,200. Flowing to btry. Flowed 286.7 BO, .1 BW, and 190,216 CF gas (GOR 660) on 15/64" chk w/FTP 200, CP 0. Avg 11.9 BO/H. Total prod in 343 hrs - 5,304 bbls. MAY 13 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" liner at 11,155'	TD 13,880. PBTD 11,200. Flowing to battery. Flowed 279.4 bbls oil, .1 bbl wtr, 364,634 cu ft gas, (GOR 1307) (Orifice meter reading) on 15/64" chk at 200 psi FTP, CP 0. Avg - 11.6 BO/H. Switched to 3" Rotron gas meter for check. Total 367 hrs prod = 5583 bbls oil. MAY 14 1971

Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,200. Flowing to battery. As of 7 a.m. 5/15/71, well flowed 273 BO, no wtr, and 108.9 MCF gas (GOR 399) on 14/64" chk in 24 hrs. FTP 175, CP 0. (Rotron gas meter). MAY 17 1971 As of 7 a.m. 5/16/71, flowed 241 BO, 1½ BW, and 104.5 MCF (GOR 433) on 15/64" chk in 22½ hrs. FTP 300, CP 90. Well down 1½ hrs due to paraffin in tbg. Circ w/hot oiler and well began flowing. Began circ system 2 p.m. 5/15/71. As of 7 a.m. 5/17/71, flowed 246 BO, 0 BW, & 108.2 MCF (GOR 440) on 15/64" chk in 24 hrs. FTP 450, CP 105. Inlet temp - 110°F. Outlet temp - 100°F. Total prod in 437 hrs - 6,343 bbls.
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,200. MI&RU hot oiler; prep to run BHP survey. On 24-hr test as of 7 a.m. 5/18/71, well flowed 249 BO, 0 BW, and 110.2 MCF (GOR 443) on 16/64" chk w/FTP 500, CP 100. Ran circ system 22 hrs. Inlet temp - 105°F., Outlet temp - 95°F. Circ 1.33 B/M at 100 psi. MAY 18 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,200. Prep to run BHP survey; WL company did not arrive yesterday. As of 7 a.m. 5/19/71, well flowed 259 BO, no wtr, and 108.7 MCF gas (GOR 420) on 17/64" chk w/FTP 400, FCP 115, in 24 hrs. Circ system ran 20 hrs. Ran at 1 1/3 B/M. Inlet temp - 96°, outlet temp - 92°. Total production in 485 hrs - 6,841 bbls oil. MAY 19 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,160. Prep to run BHP survey. Pulled sinker bars, attempted to run BHP but clocks failed. Put well on prod. Well flowed 212 BO, no wtr and 92.7 MCF gas (GOR 437) on 14/64" chk w/FTP 900, FCP 150 psi in 21 hrs. Circ system ran 24 hrs. Inlet temp - 101°, outlet temp - 96°. Circ 1943 BW in 24 hrs (1.35 B/M). Total prod 7053 BO in 506 hrs. MAY 20 1971 RU WL Service 5-19-71. Ran in hole w/1 3/4" OD tool to 11,160 (new PBTD).
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,160. SI for BHP survey. MAY 21 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,160. Pulling BHP bomb. MAY 24 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,160. Rerunning BHP bomb. MAY 25 1971

Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,160. SI for BHP survey. MAY 2 6 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,160. SI for BHP survey. MAY 2 7 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,160. Flowing on test. Flowed 172 BO, no wtr in 12 hrs. Tbg press 500 psi, chk 18/64". MAY 2 8 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155	5/28/71 flowed 278 BO no water for 24 hrs on 21/64" chk, TP-230 5/29/71 flowed 275 BO no water for 24 hrs on 21/64" chk, TP-220 5/30/71 flowed 267 BO no water for 24 hrs on 21/64" chk, TP-220 5/31/71 flowed 267 BO no water for 24 hrs on 21/64" chk, TP-215 No gas measurement - meter repairs. JUN 1 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,160. Running collar locator and depth determination surveys to check fillup in liner. On last 24-hr test, well flowed 260 BO, no wtr, 120 MCF (GOR 462) on 22/64" chk w/225 FTP. JUN 2 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,200. Flowing. RU McC tools to run GR correlation depth log to determine if Zone 11,163-11,171 was clear for frac job. Ran logging tools under high press grease gun lubricator - some wax drag on tool to 3500'. Dropped free from that point. Btm prod tube at 11,101. Set down at 11,109 w/top of tools still in tbg. Set down second time and tools went to approx 11,124 w/tools completely out of pkr. Picked up to btm of prod tube and pulled line out of rope socket. Note: Complete GR logging tool w/collar locator, sinker bars, and rope socket. Fishing neck left in hole under pkr. (total length 19'.) Max OD 1 3/4". RD McC. Op well to treater & in 16 hrs, flowed 201.3 BO & 62,796 cf gas (GOR 380) on 22/64" chk w/280 FTP. Total oil produced to date 8843.1 bbls (Total expense $1,372,600). JUN 3 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner @ 11,155'	TD 13,880. PB 11,200. Flowing. On 24-hr test, well flowed 274.2 BO, 117,952 cf gas (GOR 430) on 22/64" chk w/FTP 210. (Total oil produced to date - 9117.3 bbls). JUN 4 1971

Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" liner @ 11,155'	TD 13,880. PB 11,200. Flowing. On 24-hr test 6/4/71, flowed 268.4 BO, no wtr and 101 mcf gas (Gor 373) on 21/64" chk. FTP 275 psi. On 24-hr test 6/5/71, flowed 265 BO, no wtr and 115 mcf gas (GOR 434) on 21/64" chk, FTP 275 psi. On 24-hr test flowed 254.7 BO, no wtr and 103.6 mcf gas (GOR 408) on 20/64" chk, FTP 310 psi. Total oil produced to date 9,905 bbls. JUN 7 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" liner @ 11,155'	TD 13,880. PB 11,200. Flowing. On 24-hr test flowed 248.6 BO, no wtr and 104.1 MCF gas (GOR 421) through 21/64" chk, FTP 310 psi. Total produced to date 10,154 BO. (Report discontinued until well is CO) JUN 8 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,200. Flowing (RRD 6/8/71) JUL 15 1971 On 7/13/71, MI&RU NOWSCO to attempt btm hole fillup CO. Ran in hole w/3/4" endless tbg. Blew top set of hydraulic BOP rubbers. Pulled out of hole to check BOP stack. On 7/14/71, installed running control head. Ran in hole w/3/4" endless tbg injecting approx 200 CF nitrogen/min while going in hole. Worked tbg to hard wax 2,000'-3800'. Increased nitrogen to approx 650 CF/min at 11,000'. Ran pipe slowly to 11,182' w/no sfc indication of solid fillup. Blew off line returns - very fine cuttings consisting of sd, shale, & mud w/possible cmt chips. Could not penetrate below 11,182'. Increased nitrogen to 950 CF/min at 11,182' for last 35 min. No increase in cuttings. Blew at 11,182' for approx 3 hrs total pump time. Pulled out of hole w/tbg. Measuring device unreliable coming out of hole. RD NOWSCO. Put well back on prod 5:30 p.m. 7/14/71. 13½ hrs prod = 106.4 BO, .3 BW w/39,860 CF gas. (Report disc until further activity)
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,200. Flowing. After NOWSCO job, on 24-hr test ending 7 a.m. 7/16/71, flowed 170 BO, .2BW and 68 MCF on 18/64" chk w/FTP 500 psi. JUL 16 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,200. Flowing On 24-hr tests, rates are as follows: 7-16 166 BO, 0 BW 7-17 153 BO, 0 BW JUL 19 1971 7-18 163 BO, 0 BW
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner @ 11,155'	TD 13,880. PB 11,200. Flowing. On 24-hr test, flowed 161 BO. JUL 20 1971

Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,200. Prep to frac. On 24-hr test, flowed 162 BO. JUL 2 1 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner at 11,155'	TD 13,880. PB 11,200. Prep to open well today. 14-hr SITP = 400#. Gelled fluid. Staked down and tested lines to Xmas tree master valve to 10,000 psi. Press'd csg annulus to 3,000 psi. Started pmpg free pad w/approx 24 bbls pad in tbg - annulus bypass valve open. SD. Reset valve. Repressured annulus to 2800 psi. Resumed pmpg pad. Pmpd free pad at 9500 psi at rate of 13.5 B/M. Pmpd frac pad at 13 3/4 B/M w/9500-9700 psi. Started frac w/1# sd/gal at 14 B/M w/9700 psi. Worked down to 8100 psi at start of 2#/gal sd rate. Press inc'd to 9950 psi w/2920 gals of 2#/gal sd in tbg and on formation. SD pmps to keep within press limitations. Stopped sd. Started flush. Cleared tbg at final pump press of 9800 psi. Max frac press-9950 psi, min 7900. ISIP 5100 to 4800 in 5 min to 4500 in 15 min. 9340# of sd in formation. JUL 2 2 1971
Murdock No. 1 (WC) Signal Well Serv. 13,000' Wasatch Test 7 5/8" Liner @ 11,155'	TD 13,880. PB 11,200. Prep to change wellhead tree from 10,000# to 5,000#. MI&RU Gibson Well Service to swab well. Op'd well 12 noon 7/22 and well was dead. No liquid flow or gas. JUL 2 3 1971
Murdock No. 1 (WC) Gibson Well Serv. 13,000' Wasatch Test 7 5/8" liner at 11,155	TD 13,880. PB 11,200. Flowing. On 7/23, swabbed for 8 hrs. On 7/24, swabbed 8 hrs and flowed to tanks 14 hrs - 124 BO. On 7/25, on 24-hr test, flowed 223 BO and 4 BW. JUL 2 6 1971
Murdock No. 1 (WC) Gibson Well Serv. 13,000' Wasatch Test 7 5/8" Liner @ 11,155'	TD 13,880. PB 11,200. No report. JUL 2 7 1971
Murdock No. 1 (WC) Gibson Well Serv. 13,000' Wasatch Test 7 5/8" Liner @ 11,155'	TD 13,880. PB 11,200. No report. JUL 2 8 1971
Murdock No. 1 (WC) Gibson Well Serv. 13,000' Wasatch Test 7 5/8" liner @ 11,155'	TD 13,880. PB 11,200. Flowing. On 24-hr test, well flowed 218 BO, 87 MCF gas on 23/64" chk w/FTP of 500 psi. JUL 2 9 1971

Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner @ 11,155'	TD 13,880. PB 11,200. Flowing. On 24-hr test well flowed 244 BO, 1½ BW and 120 MCF gas on 23/64" chk w/TP 500. Note: Released Gibson Well Service 7/25/71. JUL 30 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner @ 11,155'	TD 13,880. PB 11,200. Flowing. On 24-hr test 7/30/71, well flowed 257 BO, no wtr and 103 MCF gas on 28/64" chk w/525 psi FTP. On 24-hr test 7/31/71, well flowed 306 BO, 2 BW, and 119 MCF gas on 27/64" chk w/375 psi FTP. On 24-hr test 8/1/71, flowed 322 BO, 2 BW, and 225 MCF gas on 28/64" chk w/275 psi FTP. AUG 2 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner @ 11,155'	TD 13,880. PB 11,200. Flowing. On 24-hr test, flowed 327 BO, 3 BW, and 158 MCF gas on 28/64" chk w/275 FTP. AUG 3 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner @ 11,155'	TD 13,880. PB 11,200. Flowing. On 24-hr test, flowed 328 BO, 3 BW, and 132 MCF gas on 27/64" chk w/300 psi FTP. AUG 4 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner @ 11,155'	TD 13,880. PB 11,200. Flowing. On 23-hr test, flowed 298 BO, 6 BW, & 122 MCF on 27/64" chk w/300 psi FTP. AUG 5 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner @ 11,155'	TD 13,880. PB 11,200. Flowing. On 24-hr test, well flowed 341 BO, 2 BW, and 131 MCF gas on 27/64" chk w/300 FTP. AUG 6 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" liner @ 11,155'	TD 13,880. PB 11,200. Flowing. On 24-hr tests well flowed as follows: AUG 9 1971 8/6/71, 332 BO, 2 BW, and 129 MCF gas on 27/64" chk w/300 psi FTP. 8/7/71, 243 BO, 0 BW, 92 MCF gas on 31/64" chk w/550 psi FTP. 8/8/71, 312 BO, 2 BW, and 114 MCF gas on 34/64" chk w/300 psi FTP.
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" liner @ 11,155'	TD 13,880. PB 11,200. Flowing. On 24-hr test, flowed 331 BO, 2 BW, and 120 MCF gas on 35/64" chk w/300 psi FTP. AUG 10 1971
Murdock No. 1 (WC) 13,000' Wasatch Test 7 5/8" Liner @ 11,155'	TD 13,880. PB 11,200. Flowing. On 24-hr test, flowed 331 BO, 1 BW, and 121 MCF gas on 34/64" chk w/FTP 200. AUG 11 1971

Murdock No. 1
(WC)
13,000' Wasatch Test
7 5/8" liner @ 11,155'

TD 13,880. PB 11,200. OIL WELL COMPLETE.
On 24-hr test, well flowed 324 BO and 115 MCF gas on 31/64" chk w/FTP 250 from the Green River - Wasatch Zone 11,155-11,200. Oil Gv. - 39.8° API at 60°.
Test date 8/11/71. Completion date 4/27/71.
Elev: ~~6325~~ KB 6233
Log Tops:
TGR_3 8550 (-2225)
Top Wasatch 10,600 (-4275)
Well establishes production qualities in the Green River - Wasatch formation in the southern portion of our No. Uinta Basin acreage block.
AUG 12 1971
FINAL REPORT.

CASING AND CEMENTING

Area: North Uinta Basin

Well: Murdock No. 1

Shoe joint started in hole 1/12/71
Ran 56 jts 33.04#, S-95 FJ hyd 7 5/8" liner to 11,155'.

Jts	Wt.	Grade	LT&C ST&C	New	Feet	From	To
56	33.04#	S-95	FJ	New	2426	8729	11,155'
56 Jts Total							

Bkr Fillup Model "G" Collar at 11,069'
Bkr Guide Shoe at 11,155'

Cementing:

Liner hung at 11,155', liner hanger at 8729'. Cemented w/325 sx Class "G" cement, .4% HR-4, and 1% CFR-2. Last 150 sx w/¼# Flocele per sx, 15-16# Slurry. CIP 12:15 a.m. 1/31/71. No circ during operation.

CASING AND CEMENTING

Area: No. Uinta Basin

Well: Murdock #1

Shoe joint started in hole 9/6/70.

Ran 36 jts. 13-3/8" H-40 54.5# casing to 1094'.

Jts.	Wt.	Grade	ST&C LT&C	New	Feet	From	To
36	54.5#	H-40	ST&C	New	1099'	0	1094

36 Jts. Total

Baker Float Collar at 1061'
Baker Guide Shoe at 1094'

No. Make & Type:

2 B&W centralizers spaced at 1090' and 1032'.

Cementing: With 20 bbls water ahead, cemented through shoe at 1094' w/700 sx 1:1 pozmix (14.2# slurry), followed by 200 sx Class "G" cement, 2% $CaCl_2$ (15.5# slurry). One top rubber plug. Cement in place 6:30 p.m. 9/6/70 (Howco).

Mixing time	37 min.
Plug time	1½ min.
Displacing time	31 min.

Displaced w/167 bbls mud.

CASING AND CEMENTING

Field: N. Uinta Basin

Well: Murdock No. 1

Shoe joint started in hole at 10:00 p.m. 11-3-70

Ran 230 jts 9 5/8" Smls, 40 & 47# casing to 9598'

Jts.	Wt.	Grade	ST&C LT&C	New	Feet	From	To
169	40#	S-95	ST&C	New			
61	47#	S-95	ST&C	New			9598

230 Jts

Baker Model "G" Differential Collar at 9509
Baker Model "G" Differential Shoe at 9598

No. Make & Type:

2 B&W centralizers at 9592 and 9553'.

Cementing:

Ran and cemented 9 5/8" 40# & 47# S-95 ST&C csg at 9598' (169 jts 40# & 61 jts 47#) w/150 sx 1:1 pozmix, 2% gel and 1% CFR-2, .2% HR-4, followed by 200 sx Class "G", 15% salt and 1% CFR-2, .3% HR-4. 20 bbls water ahead. One top rubber plug. Displaced w/720 bbls drlg fluid. CIP 1:55 p.m. 11-4-70. Bumped plug w/2400 psi.

P1

SHELL OIL COMPANY

1700 BROADWAY
DENVER, COLORADO 80202

Subject: Shell - Murdock No. 1
Section 26-T2S-R5W
Duchesne County, Utah
API No. 43-013-30049

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Attention Mr. Cleon B. Feight

Gentlemen:

In reply to your letter of August 24, 1970, the location of Shell - Murdock No. 1 is in violation to the state-wide, 40-acre spacing rule (Rule C-3(b) due to topographic reasons. Lease ownership within a 660-foot radius of our proposed location is common with the ownership of the oil and gas lease under the proposed location.

Very truly yours,

J. C. Hoad

For: R. A. Flohr
Division Production Manager
Rocky Mountain Division

8

Form OGCC-1 b

THE STATE OF UTAH
DIVISION OF OIL AND GAS CONSERVATION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: 20100

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Shell Oil Company (Rocky Mountain Division Production)

8. FARM OR LEASE NAME: Murdock

3. ADDRESS OF OPERATOR: 1700 Broadway, Denver, Colorado 80202

9. WELL NO.: 1-26B5

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1285' FNL and 1378' FEL Sec 26

10. FIELD AND POOL, OR WILDCAT: No. Uinta Basin

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Approx C NE/4 Sec 26-T 2S-R 5W

14. PERMIT NO.: 43-013-30049

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6233 KB

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Installation of Pump			[X]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

As per attached report

18. I hereby certify that the foregoing is true and correct

SIGNED L. K. Jardin TITLE Division Operations Engineer DATE Sept. 19, 1972

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

INSTALLATION OF PUMP — ALTAMONT

SHELL OIL COMPANY — LEASE MURDOCK — WELL NO. 1-26B5

DIVISION ROCKY MOU[illegible]IN — ELEV 6233 KB

FROM: 6-30 - 8-28-72 — COUNTY DUCHESNE — STATE UTAH

SEP - 5 1972

UTAH

ALTAMONT

Shell-Murdock 1-26B5
(Install pump)

"FR" TD 13,880. PB 11,200. AFE #583824 provides funds to install pumping unit. Completed installation of 1½" pumping unit 6/29/72. On 14-hr test, pmpd 41 BO and 1 BW w/small amt unmeasured gas on 1½" pump x 120" stroke x 8 SPM w/10 psi FTP and zero CP. (Reports discontinued until test established) JUN 30 1972

Shell-Murdock 1-26B5
(Install pump)

TD 13,880. PB 11,200. (RRD 6/30/72). INSTALLATION OF PUMP COMPLETE. On 24-hr test ending 7 AM 8/28/72, pumped 52 BO and no wtr w/1½" pump x 120" stroke x 8 SPM w/50 spi FTP and zero CP from Green River-Wasatch zone 11,155-11,200. AUG 28 1972
FINAL REPORT.

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Shell Oil Company

3. ADDRESS OF OPERATOR: 1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1285' FNL and 1378' FEL Section 26

5. LEASE DESIGNATION AND SERIAL NO.: 20100

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Murdock

9. WELL NO.: 1-26B5

10. FIELD AND POOL, OR WILDCAT: North Uinta Area

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Approx C NE/4 Section 26-T2S-R5W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: 43-013-30049

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6218 GL, 6233 KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[X]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

As per attached prognosis

18. I hereby certify that the foregoing is true and correct

SIGNED T. S. Nye TITLE DIvision Operations Engr. DATE 7/31/74

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: USGS, Salt Lake City, Utah (for information)

*See Instructions on Reverse Side

REENTRY PROGNOSIS
SHELL MURDOCK 1-26B5
SECTION 26-T2S-R5W
DUCHESNE COUNTY, UTAH

PERTINENT DATA:

ELEV: 6218 GL: KB-GL = 15'
TD: 13,880'
PBTD: 11,200'
SHELL W.I.: 100%
Estimated BHP @ 11,110' = 3700 psi

AFE: CAPITAL $16259-
EXPENSE $16257
SHELL'S SHARE: 100%

CURRENT STATUS:

well shut-in, incapable of natural flow. Pump is stuck in tbg at surface. There is a hole in the tubing. (See attached drawing Z16-1545).

PROPOSED WORK:

Control well, pull production tubing and heat string, mill out packer at 11,090', recover junk, recover 87 foot preperforated liner, CO to PBTD @ 11,200', spot cmt plug from casing point @ 11,155 to PBTD @ 11,200', and squeeze small amount into pay zone, drill out cement plugs from casing point to 11,500, CO to 12,750' run cemented liner from 12,750 to 11,000', run production equipment and recomplete.

Note: Work through Step 13 is by rotary tools.

PROCEDURE: Discuss revision w/Foulk

1. Check tbg and csg pressure. Bleed TP to pits. MI pump truck. Displace 2-7/8" x 5-1/2" x 9-5/8" annuli free of water-glycol fluid with water and ~~save water-glycol fluid~~. (Displacement volume approximately 270 bbl.) Pump minimum 150 bbl ~~Diesel~~ Fresh water down tubing to control well. Shut-in the well.

2. Prepare pits and location and MI & RURT. Mix and condition 1200 bbl 9# ppg mud, or obtain mud from mud plant.

3. Check well for surface pressure and displace tubing volume with 9 ppg mud if necessary to complete controlling well. Install Type "H" BPV in tubing hanger. Remove tree and install and test BOPE w/2-7/8" pipe ram inserts.

4. With kill valve in place, rotate out of packer at 11,090'; displace entire hole w/9 ppg mud. Circulate and condition mud. Pull tubing. # strings down

5. Install testplug in 5-1/2" heat string hanger. Remove tubing spool. Install and test 13-5/8" 5,000 psi BOPE with 5-1/2" pipe ram inserts. Test BOPE. Check for pressure under test plug. Remove testplug. Pull 5-1/2" heat string.

6. Change BOP rams. Pick up drill pipe and collars. With pkr mill on DP, mill out and retrieve Model "D" pkr at 11,090'.

7. Run 7-5/8" RTTS to 10,900. Pressure test casing to 3000 psi surface pressure on 9 ppg mud for 15 min. If leak occurs, isolate and notify Denver Office.

8. With fishing tools on DP, engage and retrieve logging tool fish and 5-1/2" preperforated liner. (See attached drawings for liner setting sleeve dimensions and fish details).

9. With 6-1/2" bit, CO to PBTD @ 11,200'. POOH. GIH open ended and spot 100 sx cement plug at 11,200' (cement to be API Class "G" plus 1/8 to 1/4#/sx nylon fiber plus retarder as required for 4 hours thickening time at 210°F BHST. Slurry weight to be 15.9 ppg, yield 1.16 ft^3/sx). Pull above plug (approx. to 10,700 ft), shut in and bradenhead squeeze 8 barrels into open hole. Do not exceed one (1) bbl/min rate or 2500 psi Surface Pressure. If squeeze pressure develops, hold for one (1) hour, reverse out DP and POOH. WOC 24 hours.

10. Drill out cmt and CO to 11,200'. Condition and raise mud wt to 15.3 ppg. Maintain 10#/bbl fine walnut hulls LCM. Spot lost circulation pill across open hole section as necessary to raise mud weight.

11. Drill out cmt plug with top @ 11,200' and CO to 13,880'. Circulate and condition hole in preparation to run 5" liner. Run caliper for cement calc.

12. Run and cmt liner assembly as per attached casing and cementing prognosis.

13. CO to liner top and pressure test as per attached pressure testing prognosis.

14. MORT. MICR. Displace mud w/250 gal BJ mud flush followed by 500 bbl water followed by 150 gal BJ mud flush followed by water until returns are clean and clear. Pressure test w/3500 psi. Spot 40 bbls 2% NaCl water on bottom.POOH.

15. Run CBL under 2000 psi on 15.3 ppg mud and PDC (gamma ray) logs from PBTD to 10,000'. Displace hole from PBTD to sfc with 5% NaCl water inhibited as per the attachment.

16. On electric line, run and set Bkr Model "D" pkr w/Flapper at 10,975' or 25' above liner top.

17. Change BOP rams to 5-1/2". Run, land, and packoff 4500' of 5-1/2" 14# K ST&C csg heat string.

18. Install test plug in 5-1/2" hanger, remove 10" BOPD. Install 10" x 6" 5,000 psi tbg spool and 6" - 5,000 psi BOPE w/2-7/8" ram inserts. Test BOPE.

19. Run production equipment as follows:

    a. Baker Model "C" plug receptacle with Model "B" pushout plug in place, shop tested to 7500 psi differential both ways.
    b. 30' long x 2-7/8" O.D. N-80 production tube.
    c. Baker anchor-tubing seal assembly w/2 seal units.
    d. Baker Model "EL" on-off seal connector. W/Otis 2.313" "N" nipple w/2.255" No-Go.

e. Approximately 10,975' 2-7/8" O.D. N-80 EUE tubing with KBMG mandrels @ 2900', 5300', 7000', 8200', 8975', 9700', 10,600', and 10,885' or 90' above the pkr, w/dummies in place and shop tested. Test going in to 7,500 psi.

20. Sting into packer, test w/weight and tension. Mark for landing with 0-5,000 pound weight on pkr.

21. Jay off "EL" on-off connector, space out for landing. Jay on, land tubing and lock in. Install BPV in 2-7/8" tubing hanger. Remove BOPE and install and nipple up 10,000 psi W.P. tree. Pressure test tubing and tree to 7,500 psi.

22. Install BPV in tbg hanger. Remove BOP stack, install and nipple up 10,000 psi WP frac tree. Test tree to 10,500 psi. Inject 24 bbls diesel down 7" x 9-5/8" annulus and in 5-1/2" x 7" annulus. Retest seals.

23. MOCR.

24. MI&RU jet perforator. With sinker bars and jars, knock out Model "B" expendable plug in tubing at approximately 11,040'.

25. Perforate from top down one hole at each of the following depths: (Depths refer to BHC/G12 log date 3/21/71.) May be perforated from bottom up provided perforations from 11,233 to 12,153 are shot first and shot from top down. Perforate unidirectionally using both top, middle and bottom magnetically decentralized 2" steel tube carrier guns. Use Schlumberger Hyperjet II charges if they are available to OWP. If not, use Schlumberger Hyperjet charges, or Harrison charges.

11,233	11,496	11,847	12,108	12,428
11,270	11,585	11,849	12,138	12,429
11,280	11,586	11,869	12,139	12,430
11,281	11,638	11,870	12,140	12,471
11,369	11,639	11,879	12,151	12,472
11,370	11,640	11,880	12,152	12,549
11,371	11,726	11,881	12,153	12,550
11,372	11,727	11,998	12,307	12,551
11,373	11,728	12,066	12,308	12,556
11,383	11,746	12,067	12,309	12,557
11,384	11,747	12,071	12,315	12,629
11,425	11,748	12,072	12,317	12,630
11,426	11,764	12,092	12,319	12,631
11,427	11,765	12,093	12,325	12,638
11,484	11,766	12,106	12,327	12,639
11,485	11,845	12,107	12,329	

26. Acid treat gross perforated interval 11,233 to 12,639 w/20,748 gals (494 bbls) 15% HCl as follows:

a. Pump 10 bbls 15% HCl.

b. Drop on 7/8" RCN ball sealer (S.G. 1.24) then pump 2 bbls 15% HCl.

c. Repeat Step b. 236 more times for a total of 472 bbls acid and 157 ball sealers.

d. Pump 10 bbls acid without Unibeads.

e. Flush w/4074 gals (97 bbls) fresh water containing 165# NaCl and 3 gals G-10/1000 gals.

NOTE:

(1) All acid except last 10 bbls to contain the following additives per 1000 gals:

3 gals G-10, 3 gals C-15, 3 gals J-22, 30 lbs OS-160 Wide Range Unibeads, and 30 lbs OS-160 Button Unibeads. Last 10 bbl acid to cintain all the above additives except Unibeads.

(2) Pump at a maximum rate of 8 BPM. Do not exceed 8900 psi surface pressure.

(3) Heat all fluids to 80F.

(4) If ballout occurs before all acid is injected into the formation, pressure up to 9500 psi, hold for 3 minutes, bleed back and inject remainder of acid.

(5) Hold 3000 psi on csg-tbg annulus.

27. Flow off for cleanup.

28. If possible, turn well to battery immediately after cleanup and produce uninterrupted at high rates for about one week.

29. Run BHP as required.

30. Change out 10,000 psi x-mas tree (as soon as well shuts in less than 5000 psi) to 5000 psi x-mas tree.

RIH:cc
7/8/74

B. L. Faulk

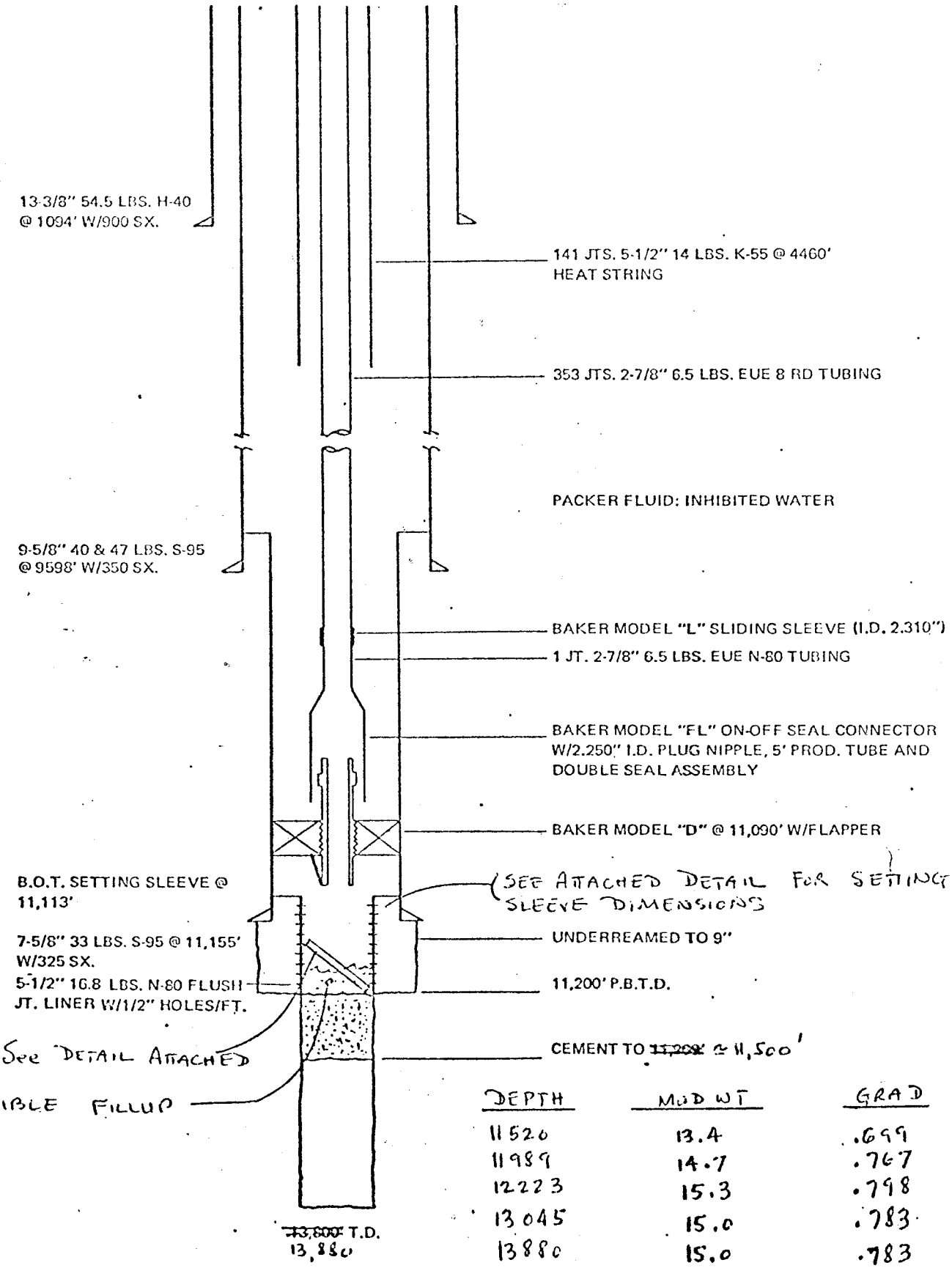
DIV. O.E. J. S. Mi

D. S. Wartick

Z16-1545

MURDOCK NO. 1
E ', 6218 K.B.
K.B.-G.L. = 15'-0"

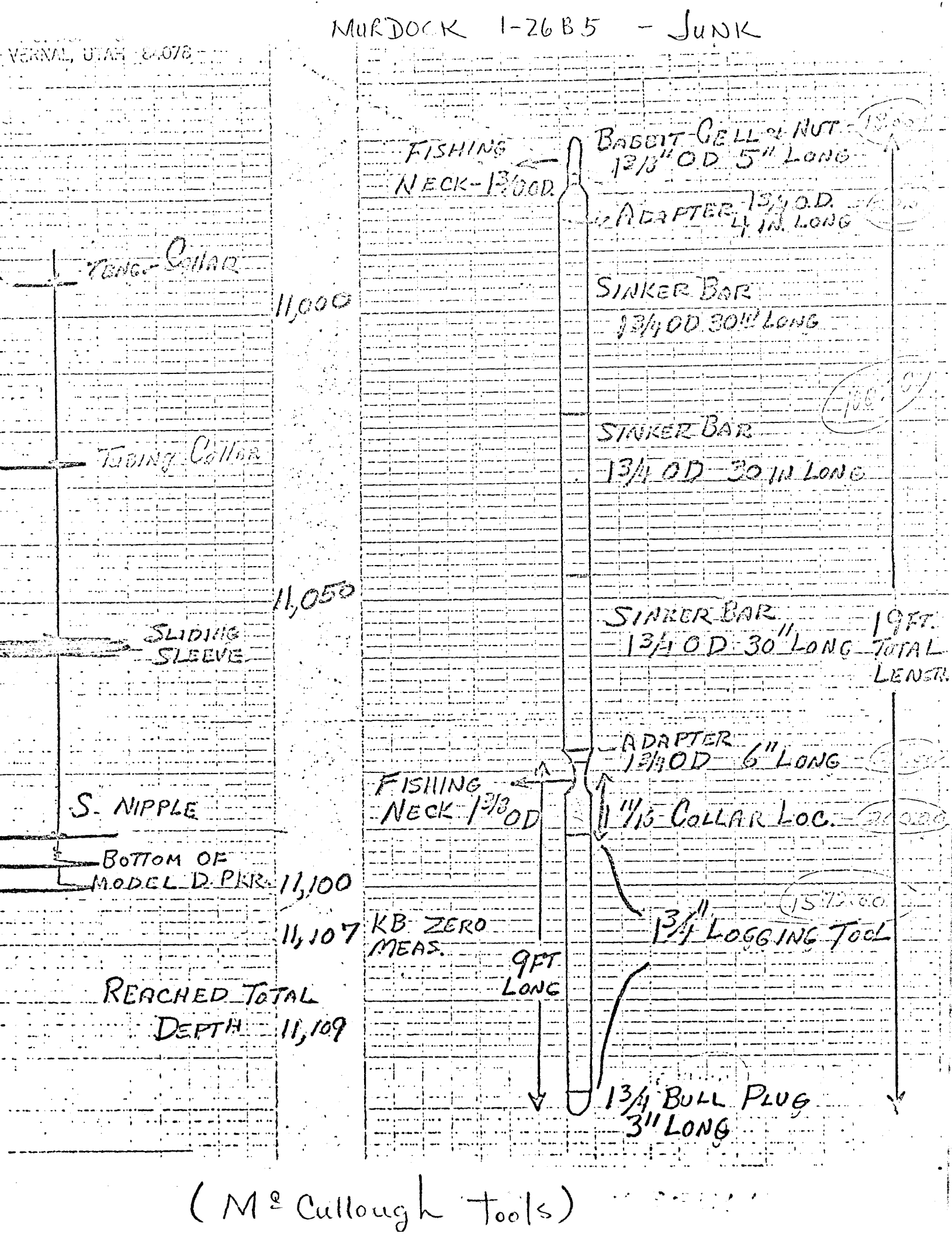
AS COMPLETED
MARCH 20, 1971



DEPTH	MUD WT	GRAD
11520	13.4	.699
11989	14.7	.767
12223	15.3	.798
13045	15.0	.783
13880	15.0	.783

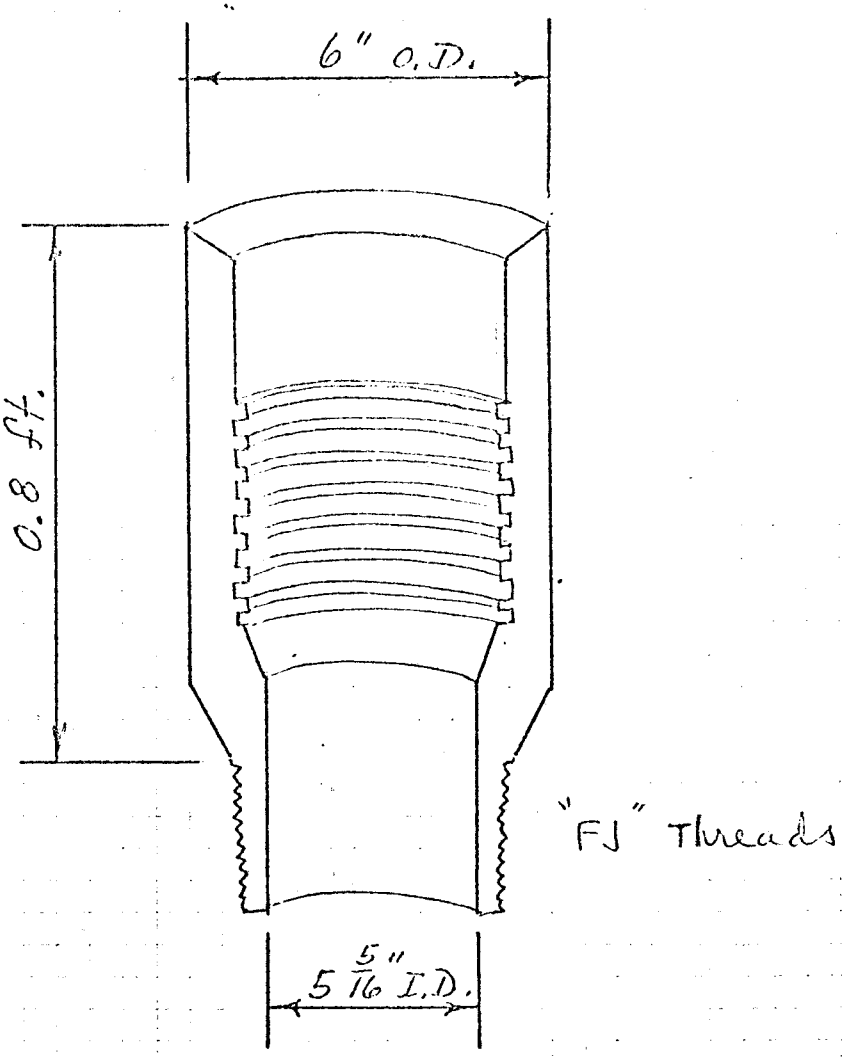
MURDOCK 1-26B5 - JUNK

VERNAL, UTAH 84078



(McCullough Tools)

MURDOCK 1-26B5



BOT LINER SETTING SLEEVE
ON TOP OF 5½" PREPERF'D
LINER - SLEEVE @ 11,113

SHELL OIL CO.
RM-89 (4-71)

WESTERN E&P REGION
ROCKY MOUNTAIN DIVISION

DISTRIBUTION:
☐ Drilling Foreman (2) _____ ☑ Div. Production Supt. B.L. Faulk
☑ Div. Drilling Supt. D.S. Wattick ☑ Purchasing Stores H.G. Flye

CASING AND CEMENTING PROGNOSIS

FOR 1 STAGE CEMENT JOB ON 2930 FT. Production Liner STRING

1. Well description: 1-26B5

2. This prognosis is based on using a 15.3 ± 0.2 ppg mud and setting casing @ 13880 feet and/or _____ feet into/below _____.

3. If on reaching casing point the above conditions do not apply, or if other well circumstances make using this prognosis inadvisable, the Shell drilling operations supervisor is to review the matter with Division supervision. Field personnel are encouraged to review prognosis with cementing company as early as practical.

4. Casing Program: Casing size 5 ". Casing to be run 1'-3' off bottom
Make up, etc. allowance 300 ft. of 18 lbs. N80 SFJP
Surface to _____ ft., _____ ft. of _____ lbs. _____ (Gauge joints)
*10950 to 13200 ft., 2250 ft. of 18 lbs. N80 SFJP
13200 to 13880 ft., 680 ft. of 18 lbs. S0095 SFJP
_____ to _____ ft., _____ ft. of _____ lbs. _____
*Top of Liner Hanger to be _____ lbs. Drift casing to 4.151"
at 10950 ±10' to avoid _____ lbs. Check stenciling to verify
perforating problems _____ lbs. wt & gr. Clean threads
_____ to _____ ft., _____ ft. of _____ lbs. and have visually inspected
_____ to _____ ft., _____ ft. of _____ lbs. _____
Total: 3230 ft.
Flag jt. @ _____ ft. Casing wt. in air: 53,000 lbs. Cost 15000 at Location

5. Casing Hardware: Float shoe type: Howco Differential Fill or eq.
Float collar 3 joint(s) above shoe. Collar type: As Above
Centralizers 6 feet above shoe. Also, every 3rd jt. from 13700 ft. to 11000 ft.
Estimated number of centralizers: 22+3 (Locate over collars.) Scratchers every _____ ft. to cover _____ from _____ to _____ ft. Also, from _____ ft. to _____ ft. DV tool located @ _____ ft. Type: _____
Other equipment: Run two solid box centralizers in lap area

6. Preflush (non-acidic): Volume: 50ft³ Type: Cement mixed @ 14.0ppg

7. Cement:
First stage: Type: Class G + 1.25%D31 + 1%gel + *%R5
Retard as required for 4 hours pumpability @ 250 °F.
Accelerate: ☐ As required for _____ hours WOC time.
☐ Not critical.
Friction reducer: ☑ Establish turbulent flow @ 3+ bbls./min.
☐ Not required.
Lost circulation material: _____

Second stage/tail in cement: Type: _____
Retard as required for _____ hours pumpability @ _____ °F.
Accelerate: ☐ As required for _____ hours WOC time.
☐ Not critical.
Friction reducer: ☐ Establish turbulent flow @ _____ bbls./min.
☐ Not required.
Lost circulation material: _____

8. Cement Volume: ☆ See Note Below

First stage: Base on caliper log/experience and use sufficient to:

- [ ] Cover _____ formation plus _____ ft.
- [ ] Circulate to surface. Minimum volume _____ sacks, based on _____.
- [ ] Reach _____ ft.

Second stage/tail in cement: Base on caliper log/experience and use sufficient to:

- [ ] Cover _____ formation plus _____ ft.
- [ ] Circulate to surface. Minimum volume _____ sacks, based on _____.
- [ ] Reach _____ ft.

9. Casing Running and Cementing Operation:
The procedures outlined in the Denver Area's "Tubular Goods Running and Cementing Guide," October 1967, are to be followed. The following specific instructions are added.

10. Reciprocation:

- [X] Do not reciprocate.
- [ ] Reciprocate till just prior to bumping plug. Do not exceed _____ lbs. additional tension from drag and cement weight.

11. Displacement:
Displace cement with Mud @ 3+ bbls./min. (Turb flow). Rate may be exceeded while "chasing" cement.
Do not exceed 3000 psi while displacing and pipe is reciprocating and do not exceed 3000 psi when bumping plug.
Stop top plug by:

- [X] Bumping plug, however limiting overdisplacement to 2 bbls.
- [ ] Bumping plug when measuring accuracy cannot be established.

12. Temperature Survey:

- [ ] Run temperature survey in any event.
- [ ] Run temperature survey if LC experienced.
- [X] Do not run temperature survey.

☆ Calculate Cement Volume as follows:
Caliper Volume + 25% excess
+ Volume from Float to Shoe
+ Volume of liner lap
+ 200' of fill inside 7⅝" above
+ 50 ft³ to be used as preflush

13. Second Stage:
On second stage break circulation

- [ ] As soon as practical (use low rates).
- [ ] Wait _____ hours after bumping plug.

On second stage mix and displace cement

- [ ] As soon as practical.
- [ ] Wait _____ hours after bumping plug.

14. Lost Circulation:
Follow procedures in "Guide"; however, if LC occurs on final string, do not release rig until temperature survey establishes acceptable cement top.

15. If it will be necessary to hydraulically fracture the well, the allowable casing pressure is _____ psi based on the following conditions:
Frac fluid temp. _____ oF, wt. _____ lb./gal.
Tension D.F. _____ Burst D.F. _____.

Cement company should run pumptime test and 24hr Compressive strength test at 200°F on samples of field blend. Catch wet and dry cement samples. Do not slug pipe before clearing cement top

Prepared by: D M Newell

Approved: _____
Drilling Superintendent

Date: 7/18/74

1-26135

CASING & LINER TESTING PROCEDURE

This procedure is based on a 15.3 #/gal mud weight.

1. Clean out to 5" liner top. Check that 13 3/8" x 9 5/8" annulus is kept full of wtr during all pressure testing. Close pipe rams and test lap to 1500 psi for 15 minutes. Squeeze lap if necessary.

2. Clean out 5" liner to ~~Electrocoiler~~ 12750. ~~Consult Division or PSTD.~~ Test entire liner with 1500 psi surface pressure. If liner leaks, isolate and squeeze.

3. Run 7 5/8" sqz tool to 10900. Displace mud inside DP to 10800 with water and set sqz tool. Bleed off 375 psi differential using a 10,000 psi WP control head. ~~This procedure will test liner lap with _____ psi inflow pressure~~. Test for 30 minutes. If inflow occurs, notify Division. If no inflow occurs, reverse water out of DP through choke manifold.

4. ~~Pull sqz tool to _____ and set. Pressure annulus to _____ psi for 15 minutes. Unseat tool and pull to _____. Reset tool and pressure annulus to _____ psi for 15 minutes. Unseat tool and pull to _____. Reset tool and pressure annulus to _____ psi for 15 minutes.~~ Unseat tool and POOH. If leaks occur during any stage of testing, consult Division.

5. Install 5½" AP-FBB hanger and BPV in 10" - 5,000 x 10" - 5,000 psi AP spool.

6. Install tubing spool and Xmas tree.

7. MORT.

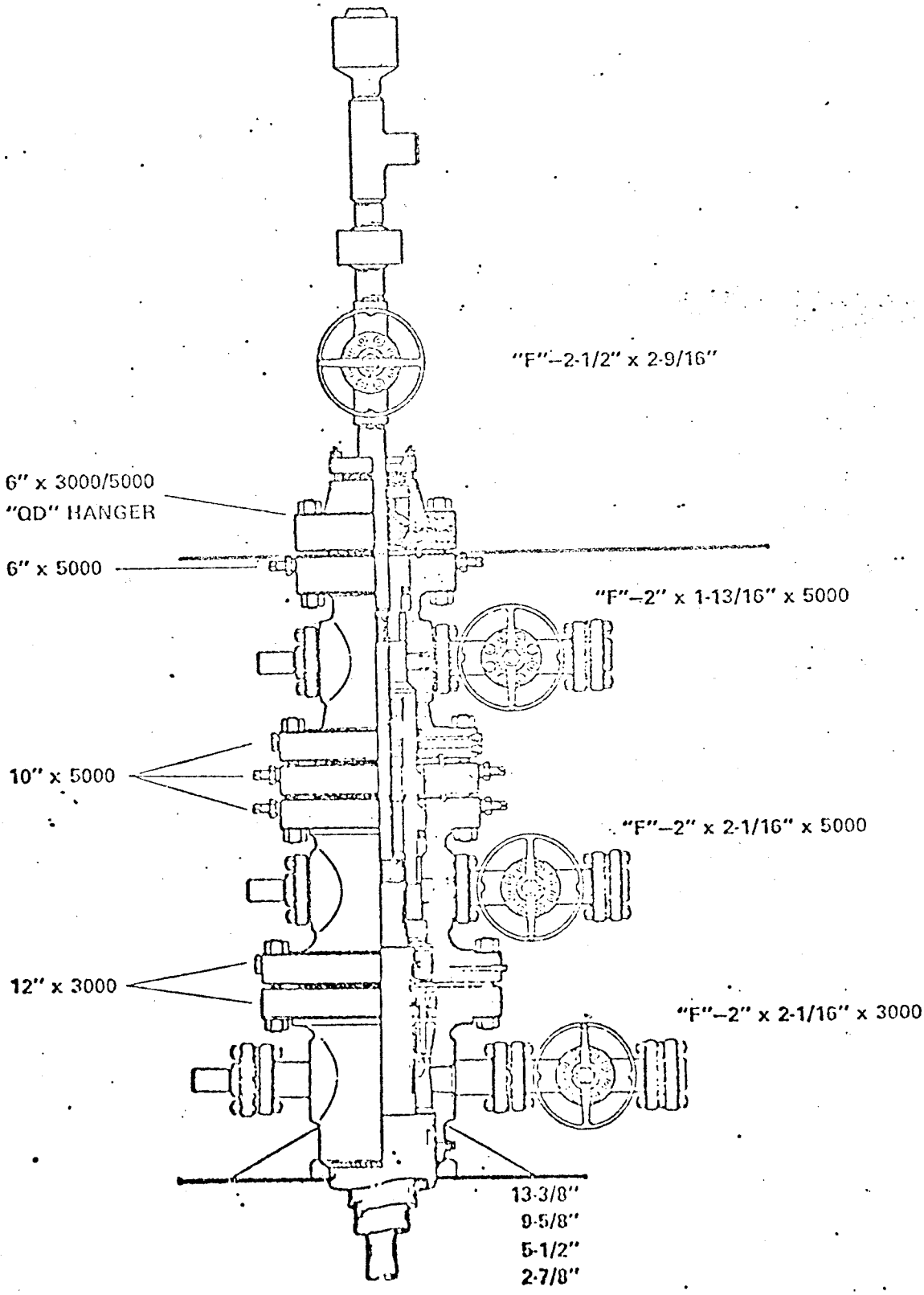
Approved:

_____

Division Drilling Superintendent

5-1722

MURDOCK 1-26B5
1-3--73



Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [XX] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Shell Oil Company

3. ADDRESS OF OPERATOR: 1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1285' FNL and 1378' FEL Section 26

5. LEASE DESIGNATION AND SERIAL NO.: 20100

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Murdock

9. WELL NO.: 1-26B5

10. FIELD AND POOL, OR WILDCAT: North Uinta Area

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Approx C NE/4 Section 26-T2S-R5W

14. PERMIT NO.: 43-013-30049

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6218 GL, 6233 KB

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[XX]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)			[ ]				

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

As per attached revised prognosis

cc: USGS, Salt Lake City, Utah (for information)

APPROVED BY DIVISION OF OIL & GAS CONSERVATION

By: D. Light

18. I hereby certify that the foregoing is true and correct

SIGNED T. S. Maze TITLE Division Operations Engr. DATE 11/22/74

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

REVISION #3

REENTRY PROGNOSIS
SHELL MURDOCK 1-26B5
SECTION 26-T2S-R5W
DUCHESNE COUNTY, UTAH

The original prognosis dated 7/8/74 should be revised as follows:

PERTINENT DATA:

ELEV: 6218' GL
KB-GL: 27'
TD: 13,880'

CURRENT STATUS:

Liner is set at 12,758 (Float Shoe); Liner hanger at 10,947'. Cement is drilled out to liner top only. Liner lap tested to 1500 psi in 14.8# mud. Hole is standing w/14.8# mud.

PROCEDURE:

14. a. MICR. Remove X-mas tree, install BOPE, remove BPV and pull Jt. of 5" heat string. Clean out 5" liner to 12,710' test entire liner with 1500 psi surface pressure on 14.8 ppg mud. If liner lap leaks, isolate and squeeze.

    b. Displace mud w/250 gal BJ mud flush followed by 500 bbl water followed by 150 gal BJ mud flush followed by water until returns are clean and clear. SI for 1 hour and observe for flow back. Pressure test w/3000 psi. Spot 40 bbl 2% NaCl water in bottom. POOH.

15. Run CBL & PDC logs from PBTD to 10,000'. Hold 3000 psi on csg while running CBL.

16. On electric line run and set 7 5/8" Baker Model "D" pkr w/flapper at 10,922' or 25' above liner top.

17 - 24 No Changes

25. Perforate from top down one hole at each of the following depths; (Depths refer to CNL-FDC log dated 10/24/74.) May be perforated from bottom up provided perforations from 11,181 to 12,174 are shot first and shot from top down. Perforate unidirectionally using top, middle, and bottom magnetically decentralized 2" steel tube carrier guns. Use Schlumberger Hyperjet or Harrison "RT" charges.

11,181	11,402	11,599	11,713	11,899	12,075	12,203	12,338
11,182	11,403	11,600	11,714	11,900	12,125	12,204	12,339
11,184	11,407	11,601	11,746	11,907	12,126	12,205	12,340
11,185	11,408	11,602	11,747	11,908	12,127	12,206	12,341
11,215	11,440	11,603	11,748	11,949	12,128	12,326	12,342
11,216	11,441	11,648	11,749	11,950	12,156	12,327	12,343
11,246	11,442	11,649	11,762	11,958	12,157	12,328	12,344
11,247	11,443	11,653	11,763	11,959	12,158	12,329	12,345
11,248	11,450	11,654	11,830	11,960	12,159	12,330	12,346
11,373	11,451	11,655	11,831	11,989	12,160	12,331	12,483
11,374	11,498	11,656	11,832	11,990	12,168	12,332	12,484
11,384	11,499	11,657	11,863	11,995	12,169	12,333	12,485
11,385	11,500	11,665	11,864	11,996	12,170	12,334	12,486
11,386	11,501	11,666	11,865	12,014	12,171	12,335	12,487
11,387	11,502	11,680	11,897	12,015	12,172	12,336	
11,401	11,598	11,681	11,898	12,074	12,173	12,337	

Total 126 perfs

26. Acid treat gross perforated intervals 11,181' to 12,487' w/37,884 gals (902 bbls) 15% HCl as follows:

    a. Pump 10 bbls 15% HCl.

    b. Drop two 7/8" RCN ball sealer (s.g. 1.24) then pump 7 bbls 15% HCl.

    c. Repeat Step b. 125 more times for a total of 875 bbls acid and 250 ball sealers.

    d. Pump 10 bbls acid without unibeads.

    e. Flush w/3822 gals (91 bbls) fresh water containing 165# NaCl and 3 gals G-10/1000 gals.

NOTES:

1. All acid except last 10 bbls to contain the following additives per 1000 gals:

   3 gals G-10, 3 gals C-15, 3 gals J-22, 30 lbs OS-160 Wide Range Unibeads, and 30 lbs OS-160 Button Unibeads. Last 10 bbl acid to contain all the above additives except Unibeads.

2. Pump at a maximum rate of 8 BPM. Do not exceed 8900 psi surface pressure.

3. Heat all fluids to 80F.

4. If ballout occurs before all acid is injected into the formation, pressure up to 9500 psi, hold for 3 minutes, bleed back and inject remainder of acid.

5. Hold 3000 psi on csg-tbg annulus.

27 - 30. No change in original prognosis.

B. L. Faulk

RIH:sy
11/21/74

DIV. O.E. J.S. Mig

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [XX] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Shell Oil Company

3. ADDRESS OF OPERATOR: 1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1285' FNL and 1378' FEL Section 26

5. LEASE DESIGNATION AND SERIAL NO.: 20100

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Murdock

9. WELL NO.: 1-26B5

10. FIELD AND POOL, OR WILDCAT: North Uinta Area

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Approx C NE/4 Section 26-T2S-R5W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: 43-013-30049

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6218 GL, 6233 KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[XX]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other)			[ ]	(Other)			[ ]

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17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

See attachment

cc: USGS, Salt Lake City, Utah (for information)

18. I hereby certify that the foregoing is true and correct

SIGNED J. W. Kyncmel TITLE Division Operations Engr. DATE 4/30/75

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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8. FARM OR LEASE NAME: Murdock

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14. PERMIT NO.: 43-013-30049

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13. STATE: Utah

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FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[X]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[X]	ABANDONMENT*	[ ]
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(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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See attachment

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Div. Opers. Engr. DATE OCT 09 1978

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: USGS, Salt Lake City, Utah (for information)

*See Instructions on Reverse Side

CO, PB, PERF & STIM

SHELL OIL COMPANY

FROM: 8/10/77 - 9/8/78

LEASE MURDOCK
DIVISION WESTERN
COUNTY DUCHESNE

NORTH UINTA AREA
WELL NO. 1-26B5
ELEV 6233 KB
STATE UTAH

UTAH
NORTH UINTA AREA

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

"FR" TD 13,880. PB 12,720. AFE #424607 provides funds to CO, plug back, perf & stim. MI&RU WOW #19 & bled press off tbg & csg. Pmp'd 200 bbls prod wtr (50 down tbg). Installed & tested BOP's. PU tbg & unlatched from Mdl D pkr. Circ'd hole vol w/prod wtr. SI for night.

AUG 10 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. POOH w/tbg - had tight spot @ 4580. Layed down mandrels. Removed BOP's & SM tbg spool. Pulled & layed down 4316 5-1/8" 17# heat string (136 jts) SI overnight.

AUG 11 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. Couldn't get caliper tool. PU Bkr 7-5/8 pkr picker & RIH; no tight spts encountered. Milled on Mdl D @ 10,930 4-1/2 hrs & Mdl D was free. SI well.

AUG 12 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. 8/12 POOH w/pkr picker & remains of Mdl D pkr & LD. RIH w/Bkr 7-5/8 full bore & stop'd @ 7-5/8 liner hanger & rev circ'd w/100 bbls prod wtr to clean off liner top. Set pkr @ 8770 (40' into 7-5/8 liner). Press'd annulus to 2000# twice; both times press drop'd to 1000# in 1-1/2 mins & to 500# in 3 mins. Repress'd to 2000# & no press incr on outside 9-5/8 csg. Released press & pkr & pulled 2 jts 2-7/8. SI well. 8/13 Rev circ'd w/50 bbls. POOH & LD full bore. RIH w/4-1/8 mill; had to mill & work pipe to get into 5" liner top. Ran mill to 11,180 w/o hit'g anything. Circ'd btms up. Pulled 20 jts 2-7/8 tbg & SI well.

AUG 15 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. POOH & LD mill. PU 7-5/8 full bore pkr & ran 40' into 7-5/8 liner & set @ 8770. Press'd tbg to 3000# to test 5" BP, 5" liner top & 7-5/8 liner; held w/0 press drop. Pmp'd down 9-5/8 csg & est inj rate of 2 B/M @ 2000 psi. Released press; csg flwd back 1/2 hr. Released pkr & circ'd 75 bbls to clean up. Pulled 100 stds tbg & SI well.

AUG 16 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. POOH & 7-5/8 pkr. RIH w/9-5/8 full bore to 8700'; 29' above 7-5/8 liner top. Set pkr & tested down tbg to 2000#, ok. Released pkr & pulled up to 7460 & set. Tested down tbg to 3000#, ok. Reset pkr @ 6820, 6840, 6900, 6960, 6780, 6720, 6660 & 6000. Est'd that 9-5/8 csg is ok below 6960 & above 6600. All other tests showed csg leaks from 6600-6960. Reset pkr @ 6250. SI well.

AUG 17 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. No report.

AUG 18 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. 8/17 MI&RU Hal & filled hole w/prod wtr. Pmp'd 10 bbls frh wtr pad & est inj rate of 3 B/M @ 1100 psi. Mixed 100 sx "thick set" cmt (21 bbls slurry) & flushed w/10 bbls frh wtr & 90 bbls prod wtr. Max rate 5 B/M @ 2000 psi. Went to 0 psi when stop'd pmp'g. WOC 2 hrs. Repeated as above; only difference was inj rate was 4 B/M @ 1100 psi. WOC 4 hrs. Filled hole & est inj rate of 3 B/M @ 1100 psi w/10 bbls frh wtr. Mixed 200 sx Class "G" cmt containing .6% Halad 9. After cmt cleared pkr, rate slowed. Staged several times; could not maintain any press. Overflushed cmt by 10 bbls. ISIP 300 psi; fell to 0 in 15 mins. 8/18 Filled hole w/1 bbl. Est inj rate @ 3 B/M @ 2000 psi. Mixed 200 sx Class "G" cmt containing .6% Halad 9. Chased w/40 BW @ 3 B/M to clear pkr. Slowed down to 1 B/M for 10 bbls flush & 1/4 B/M for 5 bbls flush. Staged 4 times. FPP 2000 psi @ 1/4 B/M. 20-min SITP 1250#. Left well SI; WOC.

AUG 19 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

AUG 22 1977

TD 13,880. PB 12,720. 8/19: WOC 24 hours. 8/20: Prep to pull pkr. SITP 200 psi. Press tbg to 2000 psi. POOH Layed down pkr. Picked up 8-1/2" bit. RIH on 2-7/8" tbg. Found top cmt @ 6600'. Established reverse circ. Drilled out 60' fair cmt in 45 min. Returns gassey. SI

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

AUG 23 1977

TD 13,880. PB 12,720. CO to 6730. RI to 6889. No cmt from 6730 to 6889. Test csg to 6889 w/3000 psi for 15 min. No press drop. Drilled cement from 6889 to 6960 in 1 hr. No cmt below 6960. Press test entire hole to 2000 psi for 20 min. No drop. Ran bit to top of liner @ 8729 w/o any cmt. POOH. Picked up 4-1/8" mill. Ran 100 stds. SI overnight.

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. Prep to perf. RIH w/4-1/8" mill to top of CIBP. No obstruction on liner tops. RU OWP to run CBL. Tied into original CBL on 7-5/8" liner @ 10,000±. Logged to 5300'. Fair to good bonding in 9-5/8" from 7-5/8" liner top @ 8729 to top of cmt @ 5550. POOH.

AUG 24 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. Prep to perf. Correction to report 8/23/77. CBL showed fair to good bonding from 7100 up to cmt top @ 5550. Picked up 3-1/8" csg gun. RIH to perf. Could not get below 11,006. POOH. Picked up 4-1/8" mill & RIH on 2-7/8" tbg. Milled to top of CIBP @ 11,105'. Reverse circ w/300 bbls prod wtr. Circ out a chunk of rubber. Spotted 40 bbls clean prod wtr on bottom, 3 gals J-22 per 1000 gal. SI

AUG [illegible]

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

AUG 2 6 1977

TD 13,880. PB 12,720. Prep to AT. RU OWP. Perf as follows: Run #1: Perf 22 holes - 11,095 up to 10,795. Run #2: Perf 22 holes - 10,787 up to 10,547. Run #3: Perf 22 holes - 10,544 up to 10,345 Run #4: Perf 15 holes - 10,334 up to 10,170. Picked up Baker 7-5/8" Full Bore pkr plus 45 seating nipples & RIH on 2-7/8" tbg. Reversed out. Tested tbg to 7500 psi, ok. Pulled S.V. Set pkr @ 10,096. Installed tbg spool. Landed tbg on donut w/20,000# tension. Tested tree. SI

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

AUG 2 9 1977

TD 13,880. PB 12,720. 8/26: Acidized gross perfs 10,170-11,095 w/435 bbls 15% HCl as follows: Pumped 50 bbls acid w/15 ball sealers. Pumped 5 bbls acid containing 1#/gal benzoic acid flakes. Repeated ball sealer stage 8 times. Repeated block stage 7 times. Flushed w/100 bbls prod wtr. Acid contained normal additives and 1-5# 20-40 RA sand per 1000 gal acid. Flush wtr gelled. Had 1500 psi on csg. Limited tbg press to 8000 psi. Max press 7600, min 5100, avg 6400. Max rate 10.5 BPM, avg rate 9.5 BPM, min rate 9.0 BPM. ISIP 4000, 15 min SITP 3000. Obtained GR Log. Indicated over 90% of perfs treated. 3 hr SITP 1200, opened well on 20/64" choke for 1-1/2 hr - FTP 400 psi, Opened to 22/64" for 1 hr - FTP 350. Well had not cleaned up. Backed down w/60 bbls prod wtr. 2 BPM @ 2500 psi. SI. 8/27: 14 hr SITP 1200 psi. Flowed 51 BO & 116 BW, 800 FTP 12/64". Opened to 25/64" choke. Turned well over to prod. 8/28: Flowing.

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. OB 12,720. On 24 hr test, well prod 53 BO, 113 BW, 264 MCF Gas w/800 press. AUG 3 0 19[illegible]

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 85 BO, 443 BW, 264 MCF gas w/200 psi.

AUG 3 1 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 90 BO, 478 BW, 264 MCF gas w/175 psi.

SEP 01 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

) 13,880. PB 12,720. On 24-hr est, prod 0 BO, 0 BW, 0 MCF gas w/175 psi.

SEP 02 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 69 BO, 1025 BW, 264 MCF gas w/100 psi.

SEP 06 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
9/2	24	0	439	256	100
9/3	24	371	404	263	100
9/4	24	0	240	256	100
9/5	24	71	0	263	100

SEP 07 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 54 BO, 710 BW, 710 MCF gas w/100 psi.

SEP 08 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 33 BO, 381 BW, 256 MCF gas w/150 psi.

SEP 09 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 48 BO, 340 BW, 390 MCF gas w/150 psi.

SEP 12 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
9/9	24	47	328	256	150
9/10	24	30	234	133	150
9/11	24	41	295	133	150

SEP 13 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 28 BO, 280 BW, 133 MCF gas w/100 psi.

SEP 14 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 6 BO, 284 BW, 133 MCF gas w/100 psi.

SEP 15 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 40 BO, 232 BW, 133 MCF gas w/100 psi.

SEP 16 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 15 BO, 246 BW, 133 MCF gas w/100 psi.

SEP 19 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test 9/16, prod 40 BO, 249 BW, 133 MCF gas w/100 psi. On 24-hr test 9/17, prod 26 BO, 228 BW, 133 MCF gas w/100 psi.

SEP 20 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test 9/18, prod 26 BO, 231 BW, 133 MCF gas w/100 psi. On 24-hr test 9/19, prod 24 BO, 232 BW, 133 MCF gas w/100 psi.

SEP 21 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

.D 13,880. PB 12,720. On 24-h .est, prod 34 BO, 202 BW, 133 MCF gas w/100 psi. SEP 2 2 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 3 BO, 145 BW, 133 MCF gas w/100 psi. SEP 2 3 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 1 BO, 159 BW, 133 MCF gas w/100 psi. SEP 2 6 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
9/23	24	29	208	133	100
9/24	24	51	280	133	100
9/25	24	17	234	107	100

SEP 2 7 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 29 BO, 191 BW, 107 MCF gas w/100 psi. SEP 2 8 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 67 BO, 165 BW, 107 MCF gas w/100 psi. SEP 29 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 10 BO, 137 BW, 75 MCF gas w/100 psi. SEP 3 0 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 25 BO, 147 BW, 107 MCF gas w/100 psi. OCT 0 3 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test 9/30, prod 0 BO, 164 BW, 107 MCF gas w/50 psi. On 24-hr test 10/1, prod 29 BO, 174 BW, 107 MCF gas w/50 psi. OCT 0 4 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test 10/2, prod 0 BO, 0 BW, 116 MCF gas w/50 psi. 10/3 SI. OCT 0 5 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 3 BO, 136 BW, 186 MCF gas w/100 psi. OCT 0 6 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 16 BO, 193 BW, 132 MCF gas w/100 psi. OCT 0 7 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, prod 15 BO, 203 BW, 134 MCF gas w/100 psi.
(Report discontinued until further activity) OCT 1 0 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

OCT 1 2 1977

TD 13,880. PB 11,105 (CIBP). (RRD 10/10/77) MI&RU CWS #25. TP 100#; bled to pit. Pmp'd 60 BW down tbg @ 2000 psi; unable to kill well. Press bled from 2000 to 300# in 15 mins. Opened well to pit 1 hr; well dead. Removed 10,000# WH & 6" x 10" spool. Installed 10" BOP. Set down on unloader & tbg blew for 5 mins. Released full bore pkr & pulled 4 stds tbg. Pkr drag'g & swb'g fluid. SI well.

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 11,105 (CIBP). [illegible] 800 psi & CP 500 psi: bled well to pit. Pulled 16 st tbg; pkr still drag'g. Pkr came free (out of the 7-5/8" csg) & well started to flw oil cut wtr. Circ'd 400 BW (lost 60 bbls); well dead. Fin'd POOH. Ran 6000' in hole w/7-5/8" full bore pkr & gas mndrls, then SI for night. OCT 13 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 11,105 (CIBP). TP & CP 500#; bled to pit. Fin'd run'g tbg. Set Bkr full bore @ 10,132, unloader sub & +45 SN above pkr & pkr set w/21,000# tension. Mndrls w/valves set @ foll'g depths: 10,100, 9600, 9095, 8586, 8049, 6953, 5232 & 2880. Installed 6" x 10" spool & 5000# WH. Hooked up gas inj & flwline. RD CWS #25. OCT 14 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 11,105 (CIBP). Gauge not available.

OCT 17 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 11,105 (CIBP). On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
10/14	18	1	633	0	1210
10/15	24	1	400	799	1050
10/16	24	0	354	0	1050

OCT 18 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 11,105 (CIBP). On 24-hr test, gas lifted 1 BO, 282 BW, 799 MCF gas w/1000 psi inj press. OCT 19 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 11,105 (CIBP). On 24-hr test, gas lifted 5 BO, 282 BW, 804 MCF gas w/1050 psi inj press. OCT 20 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 11,105 (CIBP). On 24-hr test, gas lifted 6 BO, 291 BW, 804 MCF gas w/1050 psi inj press. OCT 21 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 11,105 (CIBP). On 24-hr test, gas lifted 32 BO, 268 BW, 804 MCF gas w/1050 psi inj press. OCT 24 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 11,105 (CIBP). On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
10/21	24	1	229	793	1050
10/22	SI				
10/23	24	132	116	348	1120

OCT 25 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 11,105 (CIBP). On 24-hr test, gas lifted 0 BO, 234 BW, 348 MCF gas w/1190 psi inj press. OCT 26 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 11,105 (CIBP). On 24-hr test, gas lifted 1 BO, 368 BW, 800 MCF gas w/1180 psi inj press.

OCT 27 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 11,105 (CIBP). On 24-hr test, gas lifted 26 BW, 341 BW, 800 MCF gas w/1180 psi inj press. OCT 28 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 11,105 (CIBP). On 24-hr test, gas lifted 89 BO, 654 BW, 857 MCF gas w/1220 psi inj press. OCT 3 1 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 11,105 (CIBP). On 24-hr test, gas lifted 117 BO, 677 BW, 920 MCF gas w/1250 psi inj press. NOV 0 1 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 11,105 (CIBP). On 24-hr test, gas lifted 108 BO, 623 BW, 920 MCF gas w/1250 psi inj press. NOV 0 2 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. Ran fluid density RA tracer & temp survey - perfs from 10,170-11,095. CIBP @ 11,105. Found major oil entry w/60 BO/D & 60 BW/D @ 10,321; @ 10,241-10,251 (3 perfs), 0 oil & 200 BW/D; @ 10,274-10,282 (3 perfs), 0 oil & 200 BW/D; @ 10,345, 0 oil & 60 BW/D. No fluid entry below 10,345. NOV 0 3 1977

Shell-Murdock 1-26B5

TD 13,880. PB 12,720. No report. 11/4/77

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, gas lifted 67 BO, 491 BW, 964 MCF gas w/1220 psi inj press. NOV 0 7 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
11/4	24	78	491	864	1220
11/5	24	67	475	899	1230
11/6	24	79	458	911	1220

NOV 0 8 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720. On 24-hr test, gas lifted 90 BO, 500 BW, 911 MCF gas w/1210 psi inj press.
(Report discontinued until further activity) NOV 0 9 1977

Shell-Murdock 1-26B5
(CO, PB, Perf & Stim)

TD 13,880. PB 12,720 (RRD 11/9/77) Prior to work during 6/77, well avg'd 50 BO, 340 BW & 450 MCF gas/day. On 24-hr test 7/78 after work, well ?od 30 BO, 160 BW & 375 MCF gas.
FINAL REPORT SEP 13 1978

UTAH
ALTAMONT

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

"FR" TD 13,880. PB 11,200. Prep to circ 9.7 ppg mud. AFE Nos. 516254 and 516257 provide funds to CO, run new liner and reperf and acid treat.
8/17: Prep to flow well to pit. MI&RU Western Oilwell Service on 8/16/74.
8/18: Prep to circ 9.7 ppg mud. Flwd well to pit and killed well. Installed BOP and tested to 5000 psi, OK. Pmpd 400 bbls 9.7 ppg mud in csg. Unlatched from on-off connector and let well equalize. Pulled and laid down 4 jts tbg w/insert rod pump.
8/19: Rig SD over Sunday.
AUG 19 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,200. Laying down heat string. Circ hole w/9.7 ppg mud. Latched onto on-off connector and torqued pkr to right - tbg freed. Attempted to relatch pkr - could not latch. Pulled out of hole - did not recover btm half of on-off connector or Baker seal assembly. Installed BPV, removed BOP and tbg spool, installed BOP and removed BPV. Tested BOP to 5000 psi, OK.
AUG 20 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,200. Picking up fishing tools. RU csg crew, pulled and laid down 5-1/2" heat string and SD for rig repairs.
AUG 21 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,200. Running pkr picker. Picked up Bowen left-hand release overshot, bumper sub and ran on tbg, latching onto on-off connector. Freed pkr seal assembly, pulled out of hole and laid down pkr, seal assembly and overshot. Picked up pkr picker, bumper sub, DC's and started running on tbg.
AUG 22 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,200. Drilling. Ran pkr picker to pkr, RU drlg equipment. Drilled on pkr 3 hrs, circulated hole clean.
AUG 23 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,200.
8/24: Laying down tbg. Finished milling over pkr. Circ hole cln and started singling down tbg.
8/25: SI, WO drlg rig. Finished laying down tbg, DC's, bumper sub and pkr. Filled hole w/9.7 ppg mud. WH has 5-1/2" donut w/1 jt 5-1/2" csg w/BPV, tbg spool w/capped flange and valve. Did not recover jk pusher on pkr. Released rig at 12 PM, 8/24/74. (Reports discontinued until further activity.)
AUG 26 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,200. (RRD 8/26/74). Testing BOP's. Finished RU Brinkerhoff #56 10/1/74. Changed rams and picked up 3-1/2" DP and 12- 4-3/4" DC's. Started testing BOP's.

OCT - 2 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,200. Running in w/3-1/2" DP. Finished testing BOP's. Unnippled and installed new rings in stack and nippled up. Retested BOP's, OK. Tripped in w/6-1/2" mill and cont'd picking up 3-1/2" DP. Broke circ at 7500'. Ran to 10,900'± and to 11,150.

OCT - 3 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,200. Tripping in w/4-3/4" mill. Circ 4-1/4 hrs. Tested csg to 2500 psi for 15 min, OK. Milled up jk pusher, tagging top of liner hanger.
Mud: (.504) 9.7 x 44 x 0.2

OCT - 4 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,200.
10/5: CO liner. Jarred on liner w/spear just below BOT liner hanger - stuck. Ran 4-3/4" mill inside of 5-1/2" liner and CO to 11,161.
Mud: (.514) 9.9 x 43 x 8.8
10/6: Pulling wash tool. CO liner from 11,121-11,161 - mill quit at 11,161. Tripped in w/wash tool. Acdzd perfs from 11,121-11,161 w/1500 gal 15% HCl and 7% HF inhibited w/9 gal C-15 and lost circ. Flushed liner w/ 40 bbls oil based mud and regained full returns.
10/7: Tripping in w/jars. Circ 1-1/2 hrs, circ sml amt of acid and tr of Black Magic out of hole. Jarred on liner 1-1/2 hrs - stuck. Cut csg at 11,143.
Mud: (.514) 9.9 x 44 x 8.6

OCT - 7 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,200. Washing over fish at 11,149. Tripped in w/spear and fished 45 min. Pulled out and laid down 36.20' of 5-1/2" liner. Tripped in w/wash pipe and started washing over fish. Pipe torquing until mud cond w/additives.

OCT - 8 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,210. Cond mud to lay plug. Washed over fish and rec'd add'l 49.23' of 5-1/2" liner (all jk rec'd w/spear).
Mud: (.598) 11.5 x 48 x 8.6

OCT - 9 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,210. Building mud wt. CO to btm and plugged back w/100 sx Class "G" cmt. Pulled 7 stds to 10,700. Sqzd 8 bbls in fm w/1900 psi. Let set 1 hr. Cond mud - building mud wt from 14.4 to 15.0+.
Note: Logging tools in fish in good condition.
Mud: (.748) 14.4 x 50 x 7.2

OCT 10 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,173. Pulling magnet. Built mud wt to 15.1 ppg while WOC. Tripped in and tagged cmt at 10,845. CO cmt to 11,173. Lost two cones. Ran in w/long skirted magnet.
Mud: (.785) 15.1 x 52 x 6.4
OCT 11 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,245.
10/12: Pulled out w/magnet, rec'g half of cone. Reran magnet rec'g very little iron. Ran mill and jk sub and milled on iron. Drld 16' and strapped out of hole making SLC: 11,144 = 11,195 (51' correction).
Mud: (.790) 15.2 x 54 x 6.8
10/13: Finished out of hole w/mill at 11,195. Ran in w/6-1/2" bit and drld cmt. Changed bit at 11,243 and resumed drlg on very hard cmt.
Mud: (.795) 15.3 x 49 x 4.0 (2#/bbl LCM)
10/14: Reaming at 11,242. Drld cmt to 11,258 and pulled out for bit. Went in hole to 11,174 and hit cmt stringers at 11,181 and hd cmt at 11,206. Reamed cmt to 11,242.
Mud: (.795) 15.3 x 52 x 5.2
OCT 14 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,284. Drilling. Finished reaming to 11,258. Drld to 11,266 and pulled up to 11,174. Reamed back to 11,266. Tripped for bit and resumed drlg. Lost approx 30 bbls mud on trip.
Mud: (.795) 15.3 x 47 x 5.2 (2#/bbl LCM)
OCT 15 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,308. Drilling. Changed bit at 11,285 and resumed drlg.
Mud: (.795) 15.3 x 49 x 5.4 (2#/bbl LCM)
OCT 16 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,423. Drilling. Tripped in w/new bit at 11,308.
Mud: (.795) 15.3 x 45 x 5.2
OCT 17 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 11,570. Drilling. Drld 147'. Changed swivels and checked all 4-3/4" DC's, OK.
Mud: (.790) 15.2 x 44 x 5.3
OCT 18 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

10/19: TD 13,880. PB 11,710. Drilling. Drld 140'. Changed BHA and inspected DC's.
Mud: (.790) 15.2 x 47 x 5.6 (tr LCM)
10/20: TD 13,880. PB 11,960. Drilling. Drld 250'. Lost 20 bbls at 11,945. Added walnut hulls.
Mud: (.780) 15.0 x 44 x 5.4 (tr LCM)
10/21: TD 13,880. PB 12,180. Drilling. Drld 220'. Lost 20 bbls at 11,920.
Mud: (.769) 14.8 x 48 x 5.6 (2#/bbl LCM)
OCT 21 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 12,385. Drilling. Drld 205'.
Mud: (.769) 14.8 x 45 x 5.4 (2#/bbl LCM)
OCT 22 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,800. PB 12,600. Drilling. Drld 215'.
Mud: (.769) 14.8 x 44 x 5.2 (2#/bbl LCM)

OCT 23 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,800. PB 12,750. Circ, prep to log. Drld 150'. Short tripped to shoe.
Mud: (.769) 14.8 x 44 x 5.6 (2#/bbl LCM)

OCT 24 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,800. PB 12,760. Prep to run liner. Ran DIL, BHCS, FDC-CNL and GR logs.
Mud: (.769) 14.8 x 48 x 5.2 (2#/bbl LCM)

OCT 25 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,800. PB 12,760.
10/26: Laying down 3-1/2" DP. Ran 43 jts (1813') of 5" 18# N-80 SFJP liner including Howco diff. float shoe @ 12,758, Howco diff. float collar @ 12,710, Burns liner hanger @ 10,947. Pumped 5 bbls wtr ahead and cemented w/325 cu.ft. Class "G" cement treated w/1.25% D-3 plus 1% gel and R5. Bumped plug w/2000#, float held. Cleaned out cement 10,181-10,947. Tested lap w/1500 psi 15 min - OK.
10/28: WOCR. Laid down 3-1/2" DP and DC's. Installed 1 jt 5" heat string w/back pressure valve and nippled up x-mas tree. Released rig @ 6:00 AM 10/27/74. (Report discontinued until further activity.)

OCT 28 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,800. PB 12,760. (RRD 10/28/74). RUCR. MI Western Oilwell Service Company rig #17 on 11/25/74 and started RU.

NOV 26 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,800. PB 12,760. Picking up tbg. Finished RU. Installed BOP and tested to 5000 psi. Broke all tbg collars. Clnd and redoped factory side of threads w/ Baker seal. Picked up 4-1/8" bit and started picking up tbg.

NOV 27 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 12,720.
11/28: Rig SD for Holiday. Picked up 1811' of tbg work string and 7-5/8" csg scraper. Picked up prod tbg and ran to liner top at 10,947. RU power swivel and DO liner top and started picking up tbg.
11/29: Picking up tbg. Rig SD for Holiday.
11/30: Circ out 14.8 ppg mud. On 11/29, ran bit to 12,286 and set down on hvy gel and bar. RU power swivel and drld and circ out bar to 12,720. Press tested csg to 1500 psi w/14.8 ppg mud. Circ out mud as follows: 250 gal B-J mud Flush, 500 bbls prod wtr, 150 gal B-J Mud Flush and 600 bbls prod wtr. Ran out of wtr. Returns dirty.
12/1: Prep to run heat string. On 11/30, circ hole w/600 BW - returns cln. Pulled out of hole laying down tbg tail, bit and scraper. RU Owp and ran CBL-PDC log from 12,692 to 10,000'. Held 3000 psi on csg while running CBL. Cmt bonding good. Ran Baker 7-5/8" Model "D" pkr w/flapper w/top at 10,930. RD OWP.
12/2: Prep to run heat string. Rig SD on Sunday. DEC 2 - 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 12,720.. Running prod eqmt. RU csg and ran 137 jts 5-1/2" 14# K-55 csg w/tail to 4347. RD csg crew. Installed 5-1/2" BPV, removed BOP and installed tbg spool. Installed BOP and tested to 5000 psi, OK. Removed BPV and started running prod eqmt, testing to 7500 psi. DEC 3 - 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 12,720. SI. Finished running prod eqmt as follows: All tbg 2-7/8" EUE 8rd, N-80 and all mandrels Camco KBMG w/type "E" dummies w/BK-2 latches. Ran Baker Model "C" plug holder w/Model "D" pushout plug in place w/tail at 10,963, 29' 2-7/8" OD NU 10rd nonperf'd prod tube, Baker anchor seal assembly w/two seal unit, Baker "EL", 2" on-off tool w/Otis "N" profile w/2.313" seal bore w/2.255" no go w/top at 10,924, 4' tbg sub w/7" centralizer, 3 jts tbg, mandrel #10HP829 w/top at 10,820, 7 jts tbg, mandrel #14HP625 w/top at 10,594, 29 jts tbg, mandrel #23HP7-2 w/top at 9691, 23 jts tbg, mandrel #18HP7-1 w/top at 8966, 22 jts tbg, mandrel #16HP7-1 w/top at 8209, 38 jts tbg, mandrel #13HP7-2 w/top at 7015, 55 jts tbg, mandrel #7HP7-1 w/ top at 5289, 76 jts tbg, mandrel #5HP625 w/top at 2906, 92 jts tbg, 3' sub, 2' sub and two 10' subs, 1 jt tbg. Spaced out tbg, unlatched from on-off connector and circ annulus w/fresh trtd wtr. Latched onto on-off tool and landed tbg w/4000# set-down wt. Press'd tbg to 7500 psi for 1 hr, losing 200 psi. Installed BPV, removed BOP, installed 10,000# Xmas tree and tested to 10,500#. Pmpd diesel in 7" x 5" annulus. Sptd diesel in tree and tbg. Found one split jt of tbg (old leak in tbg) - leak in deep gouges in slip area. Released rig 12/3/74. DEC 4 - 1974

PB 12,760

Shell-Murdock 1-26B5 (CO, run new liner and RP&AT)	TD 13,800. PB 12,720. SI.	DEC 5 - 1974
Shell-Murdock 1-26B5 (CO, run new liner and RP&AT)	TD 13,800. PB 12,720. SI.	DEC 6 - 1974
Shell-Murdock 1-26B5 (CO, run new liner and RP&AT)	TD 13,800. PB 12,720. SI.	DEC 9 - 1974
Shell-Murdock 1-26B5 (CO, run new liner and RP&AT)	TD 13,800. PB 12,720. SI.	DEC 10 1974
Shell-Murdock 1-26B5 (CO, run new liner and RP&AT)	TD 13,800. PB 12,720. SI. (Reports discontinued until further activity.)	DEC 11 1974
Shell-Murdock 1-26B5 (CO, run new liner and RP&AT)	TD 13,880. PB 12,720. (RRD 12/11/74). Running sd pump. On 12/16, MI&RU slick line. Ran to 10,963 and attempted to knock out Model "B" pushout plug - could not knock out. RU Hot Oil Truck and press'd to 4750 psi - could not knock out plug.	DEC 17 1974
Shell-Murdock 1-26B5 (CO, run new liner and RP&AT)	TD 13,880. PB 12,720. Prep to perf. Ran sd pump on slick line 3 times, rec'g metal cuttings. Press'd tbg to 5500 psi and knocked out tbg plug, following to PBTD. RD slick line.	DEC 18 1974
Shell-Murdock 1-26B5 (CO, run new liner and RP&AT)	TD 13,880. PB 12,720. Perforating. RU OWP and perf'd 1 hole each unidirectionally using top, middle and btm magnetically decentralized 2" steel tube carrier gun. All depths refer to CNL-FDC log dated 10/24/74. Run #1: Gun hung up w/btm at 11,112 - could not work free. Shot one shot at 11,111 and gun freed. RU fishing tools and ran back in hole, driving Baker knockout plug to PBTD. Ran perf gun and perf'd as follows: Run #1: 11,181, (Continued)	DEC 19 1974

Shell-Murdock 1-26B5

(Continued)
11,182, 11,184, 11,185, 11,215, 11,216, 11,246, 11,247, 11,248, 11,373, 11,374, 11,384, 11,385, 11,386, 11,387, 11,401, 11,402, 11,403, 11,407, 11,408, 11,440, 11,441, 11,442, 11,443, 11,450, 11,451, 11,498, 11,499, 11,500, 11,501, 11,502, 11,598, 11,599, 11,600, 11,601, 11,602, 11,603, 11,648, 11,649, 11,653, 11,654, 11,655. Perf'd 42 holes). Press from 900 to 930 psi. Run #2: 11,656, 11,657, 11,665, 11,666, 11,680, 11,681, 11,713, 11,714, 11,746, 11,747, 11,748, 11,749, 11,762, 11,763, 11,830, 11,831, 11,832, 11,863, 11,864, 11,865, 11,897, 11,898, 11,899, 11,900, 11,907, 11,908, 11,949, 11,950, 11,958, 11,959, 11,960, 11,989, 11,990, 11,995, 11,996, 12,014, 12,015, 12,074, 12,075, 12,125, 12,126, 12,127, Perf'd 42 holes). Press from 100 to 130 psi.

DEC 19 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 12,720. Prep to flow. Tbg press 1500 psi. Finished perforating in one run 12,128-12,487 (42 holes). Tbg press 1700 psi, bled off to 0 psi. RD OWP and RU BJ. TP 3400 psi. AT gross perfs 11,181-12,487 w/37,884 gal 15% HCl, each 1000 gal contained 3 gal G-10, 3 gal C-15, 3 gal J-22, 30# OS-160 wide range and 30# OS-160 button Unibeads. Last 10 bbls did not contain Unibeads. Flushed w/3822 gal produced wtr. Each 1000 gal contained 3 gal G-10. Pumped acid as follows: pumped 10 bbls acid, dropped 2 7/8 RCN ball sealers, 1.24 gr. Pumped 7 bbls acid, repeated 2 ball sealers, 7 bbls acid 125 times. Pumped 10 bbls acid followed by flush. All fluids heated to 80 deg, held 3000 psi on csg. Max press 9800 psi, avg press 7300 psi, minimum press 5800 psi. Max BPM 9-1/2, avg BPM 7, min BPM 5. ISIP 4900 to 4800 in 5 min, 4600 in 10 min, 4400 in 15 min. Balled out w/598 bbls acid on formation and 148 balls. SD five times, total of 11 min to let balls drop off. Several breaks from 100-1000 psi. RD BJ.

DEC 20 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 12,720.
12/21: Flowing. TP 3100 psi on 12/20. Opened to pit on 64/64" chk for 5 hrs. TP ranged from 400-500 psi. Flwd est 300 BO and 250 BW w/GOR of 900. Last hr, flwd est 70 BO and 30 BW w/GOR of 900. Turned to tank battery at 4 PM.
12/22: Flowing.
12/23: Flowing. On 24-hr test, flwd 520 BO, 4 BW and 566 MCF gas through 10/64" chk w/3500 psi FTP.

DEC 23 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 12,720. Flowing. On 19-hr test, flwd 384 BO, 2 BW and 627 MCF gas through 8/64" chk w/3700 psi FTP.

DEC 24 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 12,720. Flowing. On various tests, flwd as follows:

Rpt Date	Hrs	BO	BW	MCF Gas	Chk	FTP
12/25	14	259	0	420	8/64"	4250
12/26	22	452	13	597	6/64"	3650

DEC 26 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 12,720. Flowing. On 8-hr test, flwd 127 BO, no wtr and 208 MCF gas through 6/64" chk w/4400 psi FTP.

DEC 27 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 12,720. Flowing. On 24-hr tests, flwd as follows:

Rpt Date	BO	BW	MCF Gas	Chk	FTP
12/28	197	7	442	6/64"	4000
12/29	301	0	744	6-8/64"	4000
12/30	175	0	510	6/64"	3900

DEC 30 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 12,720. Flowing. On 7-hr test, flwd 82 BO, no wtr and 147 MCF gas through 6/64" chk w/ 4000 psi FTP.

DEC 31 1974

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 12,720. Flowing. On various tests, flwd as follows:

Rpt Date	Hrs	BO	BW	MCF Gas	Chk	FTP
1/1	7	76	0	128	4/64"	3500
1/2	3	17	0	63	8/64"	no gauge

JAN - 2 1975

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 12,720. Flowing. On 24-hr test, flwd 262 BO, no wtr and 357 MCF gas through 8/64" chk w/FTP not gauged.

JAN - 3 1975

Shell-Murdock 1-26B5
(CO, run new liner and RP&AT)

TD 13,880. PB 12,720. SI for larger treater.
1/4: On 8-hr test, flwd 122 BO, no wtr and 176 MCF gas through 8/64" chk w/FTP not reported.
1/5: On 20-hr test, flwd 256 BO, no wtr and 440 MCF gas through 6/64" chk w/FTP not reported.
1/6: SI for larger treater.

JAN - 6 1975

Shell-Murdock 1-26B5 (CO, run new liner and RP&AT)

TD 13,880. PB 12,720. SI for larger treater. (Reports discontinued until further activity.)

JAN - 7 1975

Shell-Murdock 1-26B5 (CO, run new liner and RP&AT)

TD 13,880. PB 12,720. (RRD 1/7/75) Flowing. On various tests, flwd:

Rept Date	Hrs	BO	BW	MCF Gas	Chk	FTP
3/28:	21	1074	26	1260	10/64"	2750
3/29:	24	961	0	1099	10/64"	3250
3/30:	24	567	0	1260	10/64"	2500
3/31:	24	933	40	1327	10/64"	2150
4/1:	22	919	17	1209	10/64"	2500

APR 0 1 1975

Shell-Murdock 1-26B5 (CO, run new liner and RP&AT)

TD 13,880. PB 12,720. SI.

APR 0 2 1975

Shell-Murdock 1-26B5 (CO, run new liner and RP&AT)

TD 13,880. PB 12,720. Flowing. On 24-hr test, flwd 850 BO, 38 BW, 1173 MCF gas through 10/64" chk w/1600 psi FTP.

APR 0 3 1975

Shell-Murdock 1-26B5 (CO, run new liner and RP&AT)

TD 13,880. PB 12,720. Flowing. On 24-hr test, flwd 925 BO, 24 BW, 1081 MCF gas through 12/64" chk w/1400 psi FTP.

APR 0 4 1975

Shell-Murdock 1-26B5 (CO, run new liner and RP&AT)

TD 13,880. PB 12,720. Flowing. On various tests, flwd:

Rept Date	Hrs	BO	BW	MCF Gas	Chk	FTP
4/5:	24	848	21	1081	12/64"	1300
4/6:	24	918	25	1238	14/64"	1150
4/7:	24	1011	34	1409	14/64"	1050

APR 0 7 1975

Shell-Murdock 1-26B5 (CO, run new liner and RP&AT)

TD 13,880. PB 12,760. NEW LINER, RP&AT COMPLETE. Prior to work well averaged 24 BOPD & 4 BWPD during last producing month (3/73) from Wasatch 11,155-11,200. On 24-hr test well flwd 1011 BO, 34 BW & 1409 MCF gas @ 1050 FTP from Wasatch gross perfs 11,181-12,487. Recompletion date 3/28/75. Test date 4/7/75.
FINAL REPORT

APR.0 8 1975

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR: Shell Oil Company

3. ADDRESS OF OPERATOR: P.O. Box 831 Houston, Tx 77001 ATTN: P. G. Gelling RM. #6459 WCK

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1285' FNL + 1378' FEL SEC. 26

5. LEASE DESIGNATION AND SERIAL NO.: 20100

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: MURDOCK

9. WELL NO.: 1-26B5

10. FIELD AND POOL, OR WILDCAT: ALTAMONT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: APPROX. C NE/4 T2S R5W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6233' KB

12. COUNTY OR PARISH: DUCHESNE

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☒	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐				
(Other)			☐	(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

SEE ATTACHED

18. I hereby certify that the foregoing is true and correct

SIGNED W F Nukeldore W. F. NUKELDORF TITLE DIVISION PROD. ENGINEER DATE 9/23/82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

REMEDIAL PROGNOSIS
MURDOCK 1-26B5
SECTION 26, T2S, R5W
ALTAMONT FIELD, UTAH

Pertinent Data: Shell's Share: 100%

Elevation:	6245' KB
KB-GL:	27'
TD:	12,758'
PBTD:	12,720'
Casing:	13-3/8" 54.5# H-40 @ 1094'; 9-5/8" 40# & 47# S-95 @ 9498'
Liner:	7-5/8" 33# S-95; Top @ 8729'; Bottom @ 11,155'
Liner:	5" 18# N-80 SFJP; Top @ 10,940'; Bottom @ 12,758'
Tubing:	2-7/8" EUE 6.5# N-80 to 10,068'
Packer:	7-5/8" Baker fullbore @ 10,068'
Perforations:	10,170'-11,095' (81 depths, 81 holes) 11,111' (1 hole, shot to free stuck gun) 11,274'-12,643' (95 depths, 285 holes)
Artificial Lift:	Gas mandrels with valves @ 2960'; 5090'; 6545'; 7480'; 8110'; 8740'; 9370'; 10,000'

Current Status: 66 BOPD, 309 BWPD, 237.0 MCF.

Objective: CO, reperforate and stimulate the Wasatch.

Procedure:

Note: Depth reference OWP is the GR/CBL dated 11/30/74.

1. MIRU. Load hole with clean produced water containing 5 gal/100 Tretolite X-cide 102 Biocide. Remove tree. Install and test BOP as per Attachment I.

2. Release 7-5/8" fullbore packer; pull production equipment.

3. RIH. Clean out 7-5/8" liner to top of 5" liner hanger at 10,940'±. POOH.

4. RIH with 4-1/8" mill or bit and scraper clean out to PBTD (12,720'±). Circulate hole clean and check for any large amounts of scale. Remove BOP's. Install 10,000 psi wp tree. Press test.

5. Rig up perforators with lubricator (tested to 3000 psi) and perforate as follows:

   a. Perforate (from bottom up) 3 shots per foot at depths shown on Attachment II. Depth reference is OWP's GR/CBL dated 11/30/74.

b. Perforate using a 3-1/8" OD casing gun with DNL Densi-Jet XIV (14.0 gram) charges at 120° phasing in the 5" liner. Note: In the 7-5/8" casing, use a 4" centralized casing carrier gun with 23 gram charges at 120° phasing.

c. Record pressure before and after each perforating run; note any changes.

6. RIH with 7-5/8" Baker Model "C" fullbore packer (or equivalent) with unloading sub on 2-7/8" tubing. Set packer at 10,150'±. (Note: If high pressure is encountered after perforating, lubricate in a Model "D" packer or equivalent and set at 10,150'±). If well will flow, continue flow until well dies which will also help clean up wellbore. Pressure test casing to 2500 psi. Press test tubing to 6500 psi.

7. Acid treat perforations 10,170' to 12,643' (366 old holes and 489 new holes) with 50,000 gallons of 7-1/2" HCl as follows:

a. Pump 1000 gallons of 7-1/2% HCl to establish injection rate.

b. Pump 4000 gallons of 7-1/2% HCl, dropping one 7/8" NBS-431 or equivalent 1.3 S.G. ball sealer every 55 gallons.

c. Pump 1000 gallons of 7-1/2% HCl containing 1000# benzoic acid flakes (NDA-143 or equivalent).

d. Repeat Step (b) nine more times and Step (c) eight more times for a total of ten stages 7-1/2% HCl plus ball sealers and nine stages divert material and first 1000 gallons HCl to establish rate for a combined total 50,000 gallons of 7-1/2% HCl acid and 720 ball sealers.

e. Flush with 110 bbls. of clean produced water containing 5 gal/100 Tretolite X-cide 102 Biocide.

Notes: (1) All acid and flush to contain 5 lb. NFR-44/1000 gallons HCl (or equivalent) for ±60% friction reduction and 1.0# 20-40 mesh RA sand per 1000 gallons (no RA sand in flush).

(2) All acid to contain three gallons NAI-167/1000 gallons HCl (or equivalent) for 4 hours exposure at 210°F and necessary surfactant, NNE-257N (or equivalent tested for compatibility with formation fluids) and 2 gallons NSI-372/1000 gallons HCl (or equivalent).

(3) Maintain 2500 psi surface casing pressure if possible; however, during acid treatment keep tubing-annulus differential at 6500 psi or less. Treat at maximum rates attainable within a limiting pressure of 10,000 psi.

(4) Increase amount of diverting material if necessary to obtain a gradual increase in treating pressure and/or decrease in rate.

(5) Record ISIP and SIP for 5 minutes, 10 minutes, 15 minutes and 20 minutes.

8. Flow test until well dies. Remove x-mas tree. Install BOP 's. POOH with 7-5/8" fullbore packer and tubing.

9. Run RA log from 12,650'± to 10,150'±.

10. RIH with Baker 7-5/8" Model "D" packer or equivalent. Set at 10,065'±. Run tubing with gas lift mandrels spaced and pressure set (same as last design). See Attachment III. Remove BOP's and install x-mas tree.

11. See Attachment IV for proposed status drawing.

Requested G.K. Rost 9-23-82 Approved _____

GKR:SJP
9/23/82

Date _____

RESEARCH LABORATORIES

P.O. Box 119 — Salt Lake City, Utah 84026 — (801) 722-2254

LABORATORY NUMBER W-2460
SAMPLE TAKEN
SAMPLE RECEIVED 7-2-75
RESULTS REPORTED

Sec. 26-2S-5W

SAMPLE DESCRIPTION
COMPANY Shell Oil Co. LEASE Murdock FIELD NO.
FIELD COUNTY STATE WELL NO. 1-26B5
SAMPLE TAKEN FROM
PRODUCING FORMATION Wasatch TOP
REMARKS Production Log

SAMPLE TAKEN BY

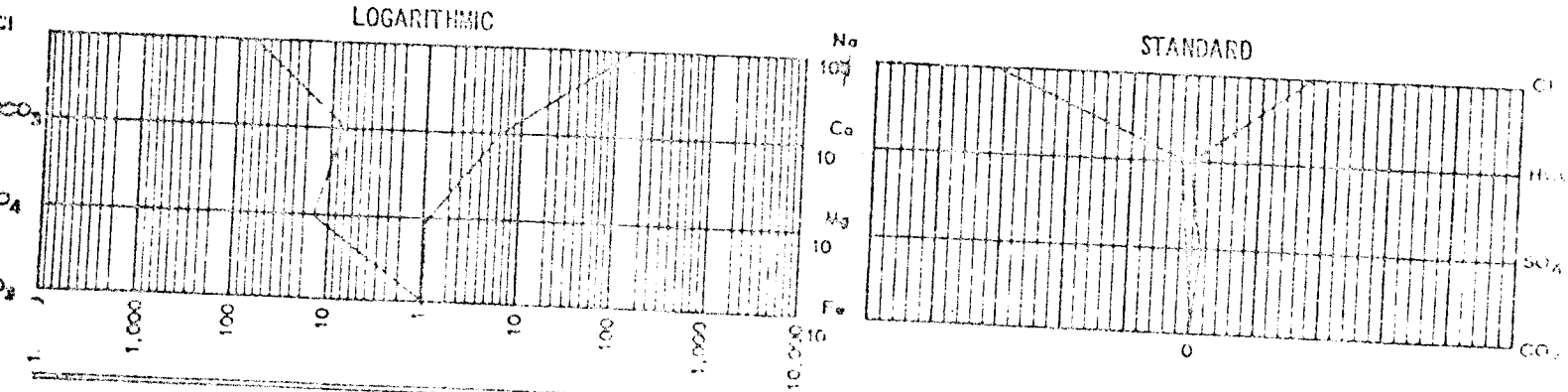
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0031 pH 7.90 RES. 1.00 OHM METERS @ 77°F

TOTAL HARDNESS 433.47 mg/L as $CaCO_3$ TOTAL ALKALINITY 508.0 mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	144.0	7.20		
MAGNESIUM - Mg^{++}	16.6	1.36		
SODIUM - Na^{+}	3600.0	156.52		
BARIUM (INCL. STRONTIUM) - Ba^{++}	0	0		
TOTAL IRON - Fe^{++} AND Fe^{+++}	3.09	0.11	165.19	
BICARBONATE - HCO_3^{-}	508.0	8.33		
CARBONATE - CO_3^{--}	0	0		
SULFATE - SO_4^{--}	816.0	17.0		
CHLORIDE - CL^{-}	2798.9	78.84	104.17	
TOTAL DISSOLVED SOLIDS	7120			

MILLEQUIVALENTS PER LITER



ANALYST

CHECKED

Shell Oil Company

P.O. Box 831
Houston, Texas 77001

December 30, 1983

Mr. Norm Stout
State of Utah
Natural Resources
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

Dear Mr. Stout:

TRANSFER OF OWNERSHIP AND ASSETS
FROM SHELL OIL COMPANY TO
SHELL WESTERN E&P INC.
STATE OF UTAH

In accordance with our recent conversation, the purpose of this letter is to reduce to writing that Shell Western E&P Inc. ("SWEPI"), a subsidiary of Shell Oil Company, has been formed. Shell Western E&P Inc. is a Delaware corporation with its offices located at 200 North Dairy Ashford Road in Houston, Texas. The mailing address is P. O. Box 831, Houston, TX 77001.

Effective January 1, 1984, Shell Oil Company will transfer portions of its oil and gas operations to Shell Western E&P Inc. and Shell Western E&P Inc. will assume all of the rights, interests, obligations and duties which Shell Oil Company currently has as a result of its exploration, development and production operations in the State of Utah.

As you are aware, Shell Oil Company is currently the holder of various permits and agency authorizations. In view of the fact that Shell Western E&P Inc. will assume all of the liabilities and obligations of Shell Oil Company's exploration and production activities within the state, we respectfully request that you transfer all permits or other authorizations from Shell Oil Company to Shell Western E&P Inc., effective January 1, 1984.

To support this request, a copy of the power of attorney appointing the undersigned as Attorney-in-Fact for Shell Western E&P Inc. is enclosed. On behalf of Shell Western E&P Inc., enclosed are recently issued Bond No. Shell 1835 and Bond No. Shell 1841. The bonds were issued by the Insurance Company of North America. In the near future, I shall request that the existing Shell Oil Company bonds be released.

It is my understanding, pursuant to our prior discussion, that this letter will comply with your requirement regarding the change in the name of the permittee.

Sufficient copies of this letter are being provided to your office so that a copy can be placed in each appropriate file. A listing of active wells is enclosed. Thank you in advance for your cooperation in this matter.

Yours very truly,

G. M. Jobe

G. M. Jobe
Administrator, Regulatory-Permits
Rocky Mountain Division
Western E&P Operations

GMJ:beb

Enclosures

RD427805418

RECEIVED

OCT 02 1984

DIVISION OF OIL
GAS & MINING

4241 State Office Building: Salt Lake City, Ut. 84114 ● 801-533-5771

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

UTEX OIL CO
% SHELL WESTERN E&P INC.
[redacted]
PO BOX 576
HOUSTON TX 77001
ATTN: [redacted] OIL ACCT.

Operator Name Change

1040

Utah Account No. N0840

Report Period (Month/Year) 8 / 84

Amended Report ☐

Well Name / API Number	Entity	Location	Producing Zone	Days Oper	Production Volume Oil (BBL)	Gas (MSCF)	Water (BBL)
BROTHERSON 1-03B4 / 4301330048	01525	02S 04W 3	WSTC	23	317	255	403
MORDOCK 1-26B5 / 4301330049	01530	02S 05W 26	GR-WS	28	1584	2747	6039
BROTHERSON 1-14B4 / 4301330051	01535	02S 04W 14	GR-WS	31	868	2489	3914
BROTHERSON 1-11B4 / 4301330052	01540	02S 04W 11	GR-WS	26	1593	3097	9080
CHRISTENSEN 1-33A5 / 4301330054	01545	01S 05W 33	GR-WS	31	858	70	1060
EVANS UNIT 1-31A4 / 4301330067	01560	01S 04W 31	GR-WS	31	2431	57	10702
BLEAZARD 1-18B4 / 4301330059	01565	02S 04W 18	WSTC	23	568	581	3422
BROTHERSON 1-02B4 / 4301330062	01570	02S 04W 2	GR-WS	0	0	0	0
RUST 1-4B3 / 4301330063	01575	02S 03W 4	GR-WS	21	567	304	128
UTE UNIT 1-36A4 / 4301330069	01580	01S 04W 36	WSTC	22	2753	3538	907
UTE UNIT 1-34A4 / 4301330075	01585	01S 04W 34	GR-WS	22	486	714	182
MONSEN 1-21A3 / 4301330082	01590	01S 03W 21	GR-WS	24	645	2264	5926
BROADHEAD 1-21B6 / 4301330100	01595	02S 06W 21	WSTC	31	1442	1685	455
		TOTAL			14112	17931	57128

JT - 2

Comments (attach separate sheet if necessary)

I have reviewed this report and certify the information to be accurate and complete. Date Sep 28 1984

Authorized signature [redacted]

Telephone 801-484-2262

Form OGC-1b

SUBMIT IN TRIPLICATE (Other instructions on reverse side) 020036 A

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: ANR Limited Inc.

3. ADDRESS OF OPERATOR: P. O. Box 749, Denver, Colorado 80201-0749

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: See attached list

RECEIVED
DEC 31 1986
DIVISION OF OIL GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Murdock

9. WELL NO.: 1-26B5

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 26 2S 5W

14. PERMIT NO.: 43-013-30049

15. ELEVATIONS (Show whether DF, RT, GR, etc.):

12. COUNTY OR PARISH: Duchesne

13. STATE:

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other) - Change Operator			[X]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

ANR Limited has been elected successor Operator to Utex Oil Company on the oil wells described on the attached Exhibit "A".

18. I hereby certify that the foregoing is true and correct

SIGNED Jon K. Nelson TITLE Dist. Land Mgr. DATE 12/24/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UTAH
NATURAL RESOURCES
Oil, Gas & Mining

355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut
84180-1203. ● (801-538-5340)

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address: N0175

● ANR LIMITED INC./COASTAL
P O BOX 749
DENVER CO 80201 0749
ATTN: RANDY WAHL

Utah Account No. N0235

Report Period (Month/Year) 11 / 87

Amended Report ☐

Well Name API Number Entity Location	Producing Zone	Days Oper	Production Volume Oil (BBL)	Gas (MSCF)	Water (BBL)
BROTHERSON 1-3B4 4301330048 01525 02S 04W 3	GRRV				
MURDOCK 1-26B5 4301330049 01530 02S 05W 26	GR-WS				
MURDOCK #2-26B5 4301331124 01531 02S 05W 26	WSTC				
BROTHERSON 1-14B4 4301330051 01535 02S 04W 14	GR-WS				
BROTHERSON 1-11B4 4301330052 01540 02S 04W 11	GR-WS				
BROTHERSON #2-11B4 4301331078 01541 02S 04W 11	WSTC				
CHRISTENSEN 1-33A5 4301330054 01545 01S 05W 33	GR-WS				
BLEAZARD 1-18B4 4301330059 01565 02S 04W 18	WSTC				
BLEAZARD #2-18B4 4301331025 01566 02S 04W 18	WSTC				
BROTHERSON 1-02B4 4301330062 01570 02S 04W 2	GR-WS				
RUST 1-4B3 4301330063 01575 02S 03W 4	GR-WS				
RUST #2-36A4 4301331092 01577 01S 04W 36	WSTC				
UTE UNIT 1-36A4 4301330069 01580 01S 04W 36	WSTC				
	TOTAL				

Comments (attach separate sheet if necessary) _____

I have reviewed this report and certify the information to be accurate and complete. Date _____

Telephone _____

Authorized signature

PLEASE COMPLETE FORMS IN BLACK INK

ANR Production Company
a subsidiary of The Coastal Corporation

c12712

JAN 25 1988

DIVISION OF
OIL, GAS & MINING

January 19, 1988

Natural Resources
Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention: Ms. Lisha Romero

N0235

This letter includes the information you requested on January 12, 1988 concerning the recent merger of ANR Limited, Inc. into ANR Production Company. Effective December 31, 1987 (December, 1987 Production), ANR Limited, Inc. merged into ANR Production Company; and henceforth, will continue operations as ANR Production Company.

N0675

ANR Production Company will begin reporting and remitting the Utah Conservation and Occupation Taxes effective December, 1987 production for leases previously reported by ANR Limited, Inc. (Utah Account No. N-7245). ANR Production Company will use the new Utah Account No. N-0675, as assigned by the State of Utah.

Please contact me at (713) 877-6167 if I can answer any questions on this matter.

Very truly yours,

Roger W. Sparks

Roger W. Sparks
Manager, Crude Revenue Accounting

The computer shows the ANR Limited wells listed under account no. N0235.
DTS
1-26-88

CC: AWS

CTE:mmw

Lisha,
I don't see any problem w/this. I gave a copy to Arlene so she could check on the bond situation. She didn't think this would affect their bond as the bond is set up for Coastal and its subsidiaries (ANR, etc.) No Entity Number changes are necessary. DTS 1-26-88

Form OGC-1b

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.: Fee-20100

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Murdock

9. WELL NO.: 1-26B5

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 26, T2S-R5W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: ANR Production Company

3. ADDRESS OF OPERATOR: P.O. Box 749, Denver, Colorado 80201-0749

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1285' FNL & 1378' FEL

RECEIVED
MAY 24 1989
DIVISION OF OIL, GAS & MINING

14. PERMIT NO.: 43-013-30049

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6203' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[X]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other)				(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Proposed Procedure:

1. MIRU. Kill well, install BOP. POOH w/production eqpt.
2. Clean out 7-5/8" csg to 10,170'. Set CIBP w/20' cmt @ 10,150'.
3. Perf Green River 8580-10,001' w/3 SPF using 4" csg gun per attached perf schedule.
4. TIH w/7-5/8" pkr to ± 8450' on 3-1/2" tbg while testing tbg on TIH.
5. Acidize well w/9000 gals 15% HCL + add.
6. Swab & flow back well until PH is greater than or equal to 5.5.
7. Re-run production eqpt & return well to production.

18. I hereby certify that the foregoing is true and correct

SIGNED: Eileen Danni Dey TITLE: Regulatory Analyst DATE: May 22, 1989

(This space for Federal or State office use)

APPROVED BY: TITLE: DATE:

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 6-2-89
By: John R. Baza

*See Instructions on Reverse Side

Perforation Schedule
Murdock #1-26B5
NW/NE Section 26, T2S-R5W
Duchesne County, Utah

Reference Log: Schlumberger Sidewall Neutron Porosity Log dated 10-30-70 and 3-12-71.

8580	8823	9101	9401	9899
87	62	16	37	
	85	33	71	9906
8601		47	94	13
08	8918	67		
18	57	76	9557	10,001
23	65	84		
28	84		9635	
40		9251		
70	9027	86	9737	
93	34	93	86	
	39		98	
8746	58	9332		
64	63	72		
77		94		
94				

Totals: 52 zones, 3 JSPF

Wendell Cole
May 3, 1989

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION & SERIAL NO.	Fee - 20100
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	N/A
7. UNIT AGREEMENT NAME	N/A
8. FARM OR LEASE NAME	Murdock
9. WELL NO.	1-26B5
10. FIELD AND POOL, OR WILDCAT	Altamont
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Section 26, T2S-R5W
12. COUNTY	Duchesne
13. STATE	Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

JUN 04 1990

DIVISION OF OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
ANR Production Company

3. ADDRESS OF OPERATOR
P. O. Box 749, Denver, Colorado 80201-0749

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface 1285' FNL & 1378' FEL
At proposed prod. zone Same as above

14. API NO. 43-013-30049

15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6203' GL

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[X]				

(Other) Recomplete to Green River

(Other) _____
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

APPROX. DATE WORK WILL START 7/14/90

DATE OF COMPLETION _____

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

Proposed Recompletion Procedure:

1) MIRU. Kill well, install BOP. POOH w/production equipment.
2) CO 7-5/8" csg. to 10,170', set CIBP w/20' cmt. @ 10,150'.
3) Perf Lower Green River w/3 JSPF per attached perforation schedule (8580'-10,001')
4) TIH w/7-5/8" pkr. to ± 8450' on 3-1/2" tbg. while testing tbg. on TIH. Acidize well w/9000 gals. 15% HCL + additives. Swab and flow back well until ph is greater than or equal to 5.5.
5) Re-run production equipment and return well to production.

18. I hereby certify that the foregoing is true and correct

SIGNED Eileen Danni Dey TITLE Regulatory Analyst DATE May 30, 1990

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
6-26-90
J. R. Baza

See Instructions On Reverse Side

(3/89)

Perforation Schedule
Murdock #1-26B5
NW/NE Section 26, T2S-R5W
Duchesne County, Utah

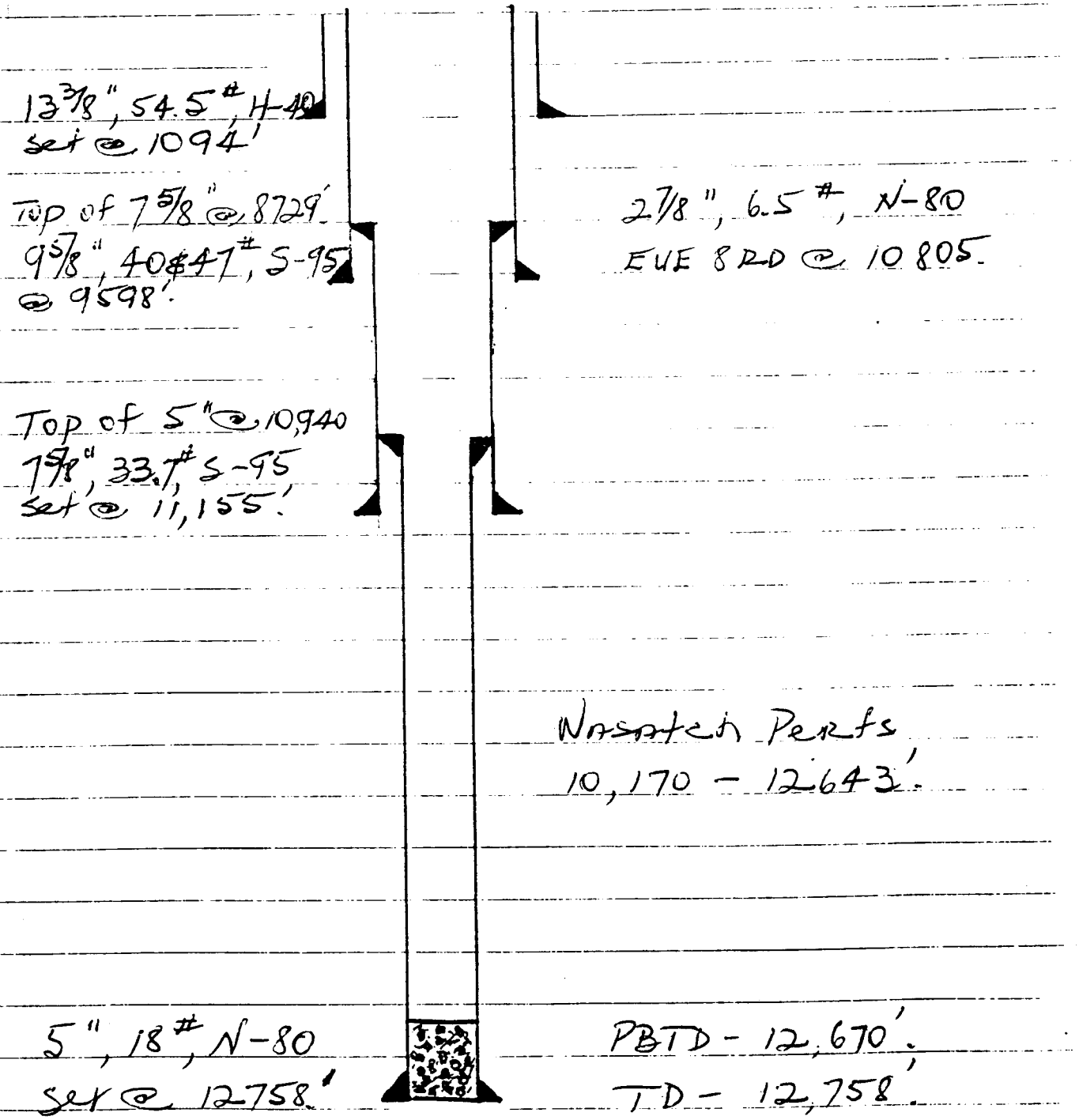
Reference Log: Schlumberger Sidewall Neutron Porosity Log dated 10-30-70 and 3-12-71.

8580	8823	9101	9401	9899
87	62	16	37	
	85	33	71	9906
8601		47	94	13
08	8918	67		
18	57	76	9557	10,001
23	65	84		
28	84		9635	
40		9251		
70	9027	86	9737	
93	34	93	86	
	39		98	
8746	58	9332		
64	63	72		
77		94		
94				

Totals: 52 zones, 3 JSPF

Wendell Cole
May 3, 1989

MURDOCK 1-26B5
Section 26, T2S, R5W
Altamont Field
Duchesne County, Utah.



FORM 8

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
OCT 22 1990
DIVISION OF
OIL, GAS & MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NO.: Fee-20100

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [ ] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [X] Other

7. UNIT AGREEMENT NAME: N/A

8. FARM OR LEASE NAME: Murdock

2. NAME OF OPERATOR: ANR Production Company

9. WELL NO.: 1-26B5

3. ADDRESS OF OPERATOR: P. O. Box 749, Denver, Colorado 80201-0749 (303) 573-4476

10. FIELD AND POOL, OR WILDCAT: Altamont

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface: 1285' FNL & 1378' FEL
At top prod. interval reported below: Same as above
At total depth: Same as above

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 26, T2S-R5W

14. API NO.	DATE ISSUED	12. COUNTY	13. STATE
43-013-30049	8/24/70	Duchesne	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod. or Plug & Abd.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)	19. ELEV. CASINGHEAD
9-1-70	4-2-71	9/29/90	6218' GL	

20. TOTAL DEPTH, MD & TVD	21. PLUG BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
12758'	12670'		→	0-TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD): 8580-10,001' Green River

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN:

27. WAS WELL CORED YES [ ] NO [X] (Submit analysis)
DRILL STEM TEST YES [ ] NO [X] (See reverse side)

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5#	1094'	17-1/2"	900 sx	
9-5/8"	40#, 47#	9598'	12-1/4"	350 sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)
7-5/8"	8,729'	11,155'	325	
5"	10,940'	12,758'		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	10,805'	

31. PERFORATION RECORD (Interval, size and number)
8580-10,001' w/3 SPF 156 total holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
9/29/90	Pumping	SI

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10/1/90	24	N/A		9	28	543	3,000

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
N/A	N/A		9	28	543	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Sold

TEST WITNESSED BY: M. Bozarth

LIST OF ATTACHMENTS: Chronological Report

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Eileen Danni Dey TITLE Regulatory Analyst DATE October 16, 1990

See Spaces for Additional Data on Reverse Side

(3/89)

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

MURDOCK #1-26B5 (RECOMPLETE TO GREEN RIVER)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH
WI: 75.000% ANR AFE: 63175 REV. 1
TD: 12,758' PBTD: 12,670'
CSG: 5" LINER @ 10,940'-12,758'
PERFS: 10,170'-12,643'
CWC(M$): $75.1

9/24/90 POOH w/tbg. MIRU. POOH w/rods. Start POOH w/tbg.
DC: $3,456 TC: $3,456

9/25/90 POOH w/tbg. RIH w/7-5/8" csg scraper to 10,170'.
DC: $1,784 TC: $5,240

9/26/90 Prep to RIH w/trtg pkr. RIH w/7-5/8" CIBP on WL & set @ 10,160'. Dump 2 sxs cmt on CIBP. Perf Green River fm from 8580' to 10,001', 3 SPF, 156 tot holes. 0 psi.
DC: $15,630 TC: $20,870

9/27/90 Prep to run prod equip. SITP 450 psi. Flwd 100 BO to tank. Well died. Circ hole w/prod wtr. Well started flwg again. Connect to trtr for night.
DC: $2,702 TC: $23,572

9/28/90 Return well to prod. Kill well w/10# brine. Set TAC @ 8789'. RIH w/modified 86 rod design. (Noted: PPD acid stim.)
DC: $7,326 TC: $30,898

9/29/90 Pmpd 139 BO, 250 BW, 4 MCF/26 hrs (down 9 hrs - salt wtr pump).

9/30/90 Pmpd 6 BO, 411 BW, 13 MCF/20 hrs (down 4 hrs - high saltwater).

10/1/90 Pmpd 9 BO, 543 BW, 28 MCF.
DC: $4,749 TC: $35,647

10/2/90 Pmpd 11 BO, 543 BW, 35 MCF.

10/3/90 Pmpd 1 BO, 534 BW, 35 MCF.

10/4/90 Pmpd 0 BO, 555 BW, 32 MCF.

10/5/90 Pmpd 0 BO, 598 BW, 24 MCF.

Before on rod pmp avg'd: 10 BOPD, 177 BWPD, 13 MCFPD. Final report.

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION & SERIAL NO.	Fee 20100
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	N/A
7. UNIT AGREEMENT NAME	N/A
8. FARM OR LEASE NAME	Murdock
9. WELL NO.	1-26B5
10. FIELD AND POOL, OR WILDCAT	Altamont
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Section 26, T2S-R5W
12. COUNTY	Duchesne
13. STATE	Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
ANR Production Company

3. ADDRESS OF OPERATOR
P. O. Box 749, Denver, Colorado 80201-0749 (303) 573-4476

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface 1285' FNL & 1378' FEL
At proposed prod. zone
Same as above

14. API NO.
43-013-30049

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6218' GL

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON	[X] ✓	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

APPROX. DATE WORK WILL START 12/15/90

DATE OF COMPLETION

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

PROPOSED PROCEDURE:

1) MIRU. Service rig. Kill well. NU BOPE, POOH & LD rods. POOH w/tbg. & prod. eqpt.

2) Spot 117 sx. cmt. plug from ± 8530' to ± 8929'.

3) RIH w/2-7/8" tbg. & 9-5/8" cmt. retainer and set @ ± 8390'. Pump 50 sx. Cl "G" cmt. below retainer and spot 75 sx. Cl "G" cmt. on top of retainer (8190-8390').

4) Press test 13-3/8" x 9-5/8" annulus. Fill w/cmt. if necessary.

5) Spot 50 sx. Cl "G" cmt plug from surface to 200' (approximately 74 sx.)

6) Cut 9-5/8" csg. off. Weld on plate. Install dry hole marker. Reclaim surface per Utah DOGM specifications.

18. I hereby certify that the foregoing is true and correct

SIGNED Eileen Danni Dey TITLE Regulatory Analyst DATE October 29, 1990

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

(3/89)

Form 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

6. Lease Designation and Serial Number: Fee 20100

7. Indian Allottee or Tribe Name: N/A

8. Unit or Communitization Agreement: N/A

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT— for such proposals.

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other (specify)

9. Well Name and Number: Murdock #1-26B5

2. Name of Operator: ANR Production Company

10. API Well Number: 43-013-30049

3. Address of Operator: P. O. Box 749, Denver, Colorado 80201-0749

4. Telephone Number: (303) 573-4476

11. Field and Pool, or Wildcat: Altamont

5. Location of Well
Footage : 1285' FNL & 1378' FEL
QQ, Sec, T., R., M. : Section 26, T2S-R5W
County : Duchesne
State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
[ ] Abandonment	[ ] New Construction	[X] Abandonment *	[ ] New Construction
[ ] Casing Repair	[ ] Pull or Alter Casing	[ ] Casing Repair	[ ] Pull or Alter Casing
[ ] Change of Plans	[ ] Recompletion	[ ] Change of Plans	[ ] Shoot or Acidize
[ ] Conversion to Injection	[ ] Shoot or Acidize	[ ] Conversion to Injection	[ ] Vent or Flare
[ ] Fracture Treat	[ ] Vent or Flare	[ ] Fracture Treat	[ ] Water Shut-Off
[ ] Multiple Completion	[ ] Water Shut-Off	[ ] Other	
[ ] Other			

Approximate Date Work Will Start: _____

Date of Work Completion: 4/19/91

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached chronological report for the P&A procedure performed on the above-referenced well.

(Also please see attached cement verification report.)

RECEIVED
MAY 16 1991
DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Name & Signature: Eileen Danni Day (Eileen Danni Day) Title: Regulatory Analyst Date: 5/9/91

(State Use Only)

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

MURDOCK #1-26B5 (P&A)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH
WI: 75.0000% ANR AFE: 63332
TD: 13,880' PBTD: 12,670'
5" LINER @ 10,940'-12,758'
PERFS: 10,170'-12,643' (WASATCH)
CWC(M$): $49.7

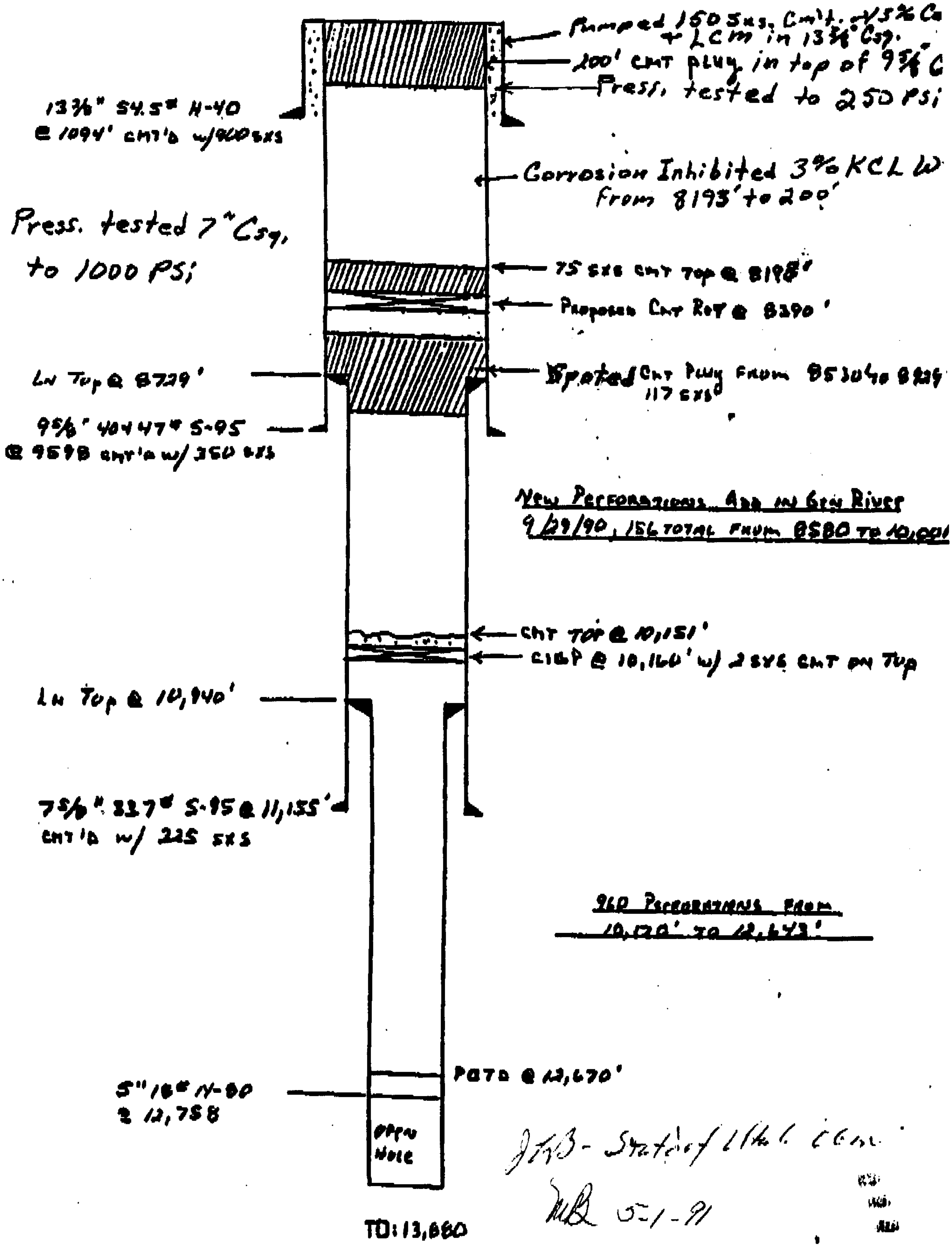
4/16/91 POOH w/rod pump BHA. MIRU. LD HH. POOH w/86 tapered rod string and pump. ND WH, NU BOP.
DC: $4,847 TC: $4,847

4/17/91 POOH w/tbg. POOH w/rod pump BHA. Spotted 117 sxs Class "G" cmt from 8530' to 8925'. Reverse out. POOH to 1874'.
DC: $2,326 TC: $7,173

4/18/91 POOH w/tbg. POOH. RIH w/CICR and set @ 8390'. RIH w/stinger. Pump 50 sxs Class "G" down 13-3/8" x 9-5/8" csg. Spot 75 sxs Class "G" cmt to 8193'.
DC: $6,522 TC: $13,695

4/19/91 Pressure test 13-3/8" csg. Would not hold. Spot 100 sxs cement in 9-5/8" csg from 200' to surface. Pump 100 sxs cmt down 13-3/8" csg. Pressure test to 200 psi. Held. ND WH and weld marker. Final report.
DC: $19,173 TC: $32,868

P&A Wellbore Schematic
Murdock #1-26B5
Section 26, T2S, R5W



JRB - State of Utah CEM
MB 5-1-91

DUPLICATE

INVOICE

The Western Company of North America

P.O. BOX 94480 TULSA, OKLAHOMA 74194
(713) 629-2600

TO COASTAL OIL & GAS
P.O. BOX 120
ALTAMONT, UT 84001

TERMS
NET CASH DUE ON OR
BEFORE 30 DAYS
AFTER DATE OF INVOICE

FEDERAL I.D. NO. C 75-0763484

INVOICE NO.
373078

PLEASE DISREGARD THIS INFORMATION						
18463	15	35	43	2	30	9

DATE MO.	DATE DAY	DATE YR.	OUR RECEIPT NO.	SERVICES FROM OUR STATION AT	OUR ENGINEER	SIGNED FOR YOU BY
04	17	91	169373	VERNAL CEMENTING	KRUGER	BOZARTH

FOR SERVICING WELL NAME	COUNTY	STATE	YOUR ORDER NO
1-26B5	DUCHESNE	UT	

UNITS	CODE	DEPTH AND DESCRIPTION	UNIT PRICE	AMOUNT	
1.0	F0546	CEMTNG DP/TB, 1ST 8 HRS, 1001-1500'	1279.000	1,279.00	
1.0	F0686	CEMTNG DP/TB, 1ST 8 HRS, 8001-8500'	2864.000	2,864.00	
1.0	F0696	CEMTNG DP/TB, 1ST 8 HRS, 8501-9000'	3052.000	3,052.00	
65.0	K1006	MILEAGE CHARGE, PER UNIT, PER MILE	2.550	165.75	
65.0	K1026	MILEAGE AUTO/PICK-UP/TREATING VAN	.920	59.80	
65.0	K1026	MILEAGE AUTO/PICK-UP/TREATING VAN	.920	59.80	
65.0	K1026	MILEAGE AUTO/PICK-UP/TREATING VAN	.920	59.80	
445.0	M1006	LAND JOBS	1.200	534.00	*
1358.5	M2306	DELIVERY CHARGE PER TON MILE	.810	1,100.39	*
320.0	P0530	CALCIUM CHLORIDE-UTAH, LB	.380	121.60	*
280.0	P1796	HI-SEAL 2, PER LB	.810	226.80	*
445.0	P433L	PREMIUM CEMENT, VERNAL, UT.	9.650	4,294.25	*
		SUB TOTAL		13,817.19	
	90200	SALES CONCESSION ON SERVICES		2,901.61-	
	96326	DUCHESNE COUNTY 1.000%		49.58	
	96900	UTAH SALES & USE TAX 5%		247.94	

PAY THIS AMOUNT 11,213.10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: ANR PRODUCTION COMPANY

WELL NAME: MURDOCK 1-26 B5 API NO: 43-013-30049

SECTION: 26 TWP 2 S RANGE: 5 W

INSPECTOR: HEBERTSON TIME: 1:00 DATE: 4/17/91

REPRESENTATIVE: MARVIN BOZARTH PUSHER: HAROLD CUNDALL

OPERATIONS: PLUG AND ABANDON PLACE CEMENT PLUGS

SPUD DATE: _____ DEPTH: 8,929'

DRILLING AND COMPLETIONS:

_____APD	_____WELL SIGN	_____SANITATION
_____BOPE	_____BLOOIE LINE	_____H2S
_____VENTED/FLARED	_____RESERVE PIT	_____FLARE PIT
_____BURN PIT	_____HOUSEKEEPING	

PLUGGING AND ABANDONMENTS:

PLUG TYPE	INTERVAL
BALANCED PLUG OF 117 SX G	8,530-8,929' 4/17/91
WIRE LINE CEMENT RETAINER	8,390' 4/18/91
RETAINER PLUG 75 SX	8,190-8,390' 4/18/91
SURFACE PLUG 75 SX	0-200, 4/19/91
ANNULUS PLUG 150 SX	4/19/91

PLUGS TESTED: Y HOW PRESSURE WOC _____

TYPE OF MARKER: Y BURIED PLATE _____SURFACE

RECLAMATION:

_____CONTOUR _____RIP _____REHABILITATION

LEGEND: (Y)=YES (P)=PROBLEM (U)=UNKNOWN (BLANK)=NOT APPLICABLE

REMARKS:

RETAINER WAS SET BY WIRELINE, AND COULD NOT PUMP BELOW IT. 13 3/8 ANNULUS WAS CEMENTED WITH 150 SX G WITH BRIDGING AGENT AND TESTED TO 200 #. WILL REMOVE EQUIPMENT AND REHAB.

S.C. Prutch
10/12/90

P+A Wellbore Schematic
Murdock #1-26 BS
Section 26, T25, R5W